

MV-900SDS

SERVICE MANUAL

US Model

Ver. 1.4 2006.08




COMPONENT MODEL NAME

	MODEL NUMBER LABEL	PRINTED MODEL NAME
DVD PLAYER	MV-900SDS	XVM-R90D
CORDLESS STEREO HEADPHONES	MDR-IF0140	MDR-IF0140
	MV-01HP	MV-01HP
CARD REMOTE COMMANDER	—	RM-X137

Note: There are two types of Cordless Stereo Headphones. For further information, see "NOTE WHEN REPLACING THE CORDLESS STEREO HEADPHONES" (page 3) of the Servicing Notes.

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SPECIFICATIONS

DVD player XVM-R90D

System

Laser	Semiconductor laser
Signal format system	NTSC/PAL

Audio characteristics

Frequency response	20 Hz to 20 kHz
Signal to noise ratio	90 dB (A)
Harmonic distortion	0.05 %
Dynamic range	90 dB
Wow and flutter	below measurable limits (±0.001% W PEAK)

General

Outputs	FM output Audio output Video output Optical output
Inputs	Audio input Video input DC 12V input 12 V DC
Power requirements	Approx. 285 × 73 × 455 mm (11 1/4 × 2 7/8 × 18 in) (w/h/d)
Dimensions	Approx. 3.5 kg (7 lb 12 oz)
Mass	0 °C to 45 °C (32 °F to 113 °F)
Operating temperature	

Supplied accessories

Card remote commander
RM-X137
Power supply cord (1)
RF modulator cable (1)
Mounting plate (1)
Screws (5)
Tapping screws (8)
Operating Instructions (1)

Monitor

System	Liquid crystal color display
Display	Manual flipdown panel
Drive system	TFT-LCD active matrix system
Picture size	9 inches wide screen (16:9)
Picture segment	336,960 (w 1,440 × h 234) dots

Cordless Stereo Headphones MDR-IF0140

General

Modulation system	Frequency modulation
Carrier frequency	Right 2.8 MHz Left 2.3 MHz
Frequency response	18 – 22,000 Hz
Power source	DC 1.5 V (size AAA) dry battery
Mass	Approx. 125 g (4.41 oz) including battery
Operating temperature	5 °C to 35 °C (41 °F to 95 °F)

Design and specifications are subject to change without notice.

MOBILE DVD SYSTEM

9-877-871-05
2006H05-1
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eVehicle Division
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CAUTION

The use of optical instruments with this product will increase eye hazard.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

**DANGER — INVISIBLE LASER RADIATION WHEN OPEN.
AVOID DIRECT EXPOSURE TO BEAM.**

This is located on the drive unit's internal chassis.

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SECTION 1 SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

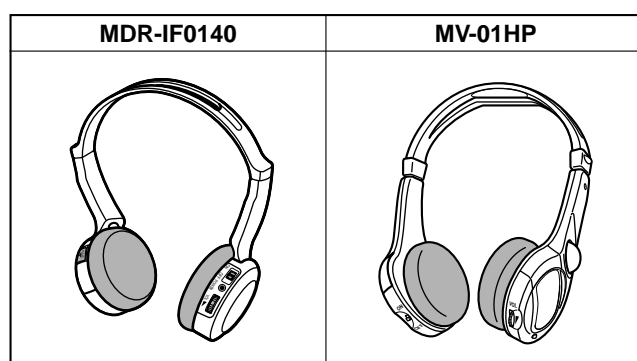
NOTES ON LASER DIODE EMISSION CHECK

Never look into the laser diode emission from right above when checking it for adjustment. It is feared that you will lose your sight.

NOTE WHEN REPAIRING OR REPLACING THE CORDLESS STEREO HEADPHONES

The Cordless Stereo Headphones attached to this set have been changed in the midway of production.

Repair or replace the Cordless Stereo Headphones after making sure which type they are by referring to the following figure.



UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350 °C.

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.

- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

About discs this player can play

This player can play the following discs:

- DVD
- DVD-R/DVD-RW
- Video CD
- Audio CD
- CD-R/CD-RW

Disc type	Label on the disc	
DVD VIDEOS		
		
Video CDs		
		
Audio CDs		
		
MP3 files/ JPEG files		
		


“DVD VIDEO,” “DVD-R” and “DVD-RW” are trademarks.

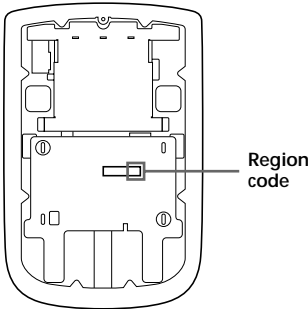
Notes on CD-Rs (recordable CDs)/CD-RWs (rewritable CDs)/DVD-Rs (recordable DVDs)/DVD-RWs (rewritable DVDs)

- Some CD-Rs/CD-RWs/DVD-Rs/DVD-RWs (depending on the equipment used for its recording or the condition of the disc) may not play on this player.
- You cannot play a CD-R/CD-RW/DVD-R/DVD-RW that is not finalized*.
- You cannot play a CD-R/CD-RW that is recorded in Multi Session.
- You can play MP3/JPEG files recorded on CD-ROMs, CD-Rs, and CD-RWs.

* A process necessary for a recorded CD-R/CD-RW disc to be played on the audio CD player.

Region code of DVDs this player can play

This player has a region code printed on the rear of the player and will only play DVDs that are labeled with identical region codes. DVDs labeled  will also be played on this player. If you try to play any other DVD, the message “REGION ERROR” will appear on the screen. Depending on the DVD, the region code indication may not appear even if the DVD is prohibited by area restrictions.



Cautions

- This player **CANNOT** play these discs.
 - DVD-Audio
 - DVD-ROM
 - SVCD
 - Photo-CD
 - Active-Audio (Data)
 - CD-Extra (Data)
 - Mixed CD (Data)
 - CD-ROM (the data other than the MP3/JPEG file)
 - DVD-RW recorded in VR mode
 - DVD-RAM
 - CD-G
 - CD-I
 - VSD
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Note on PBC (Playback Control)



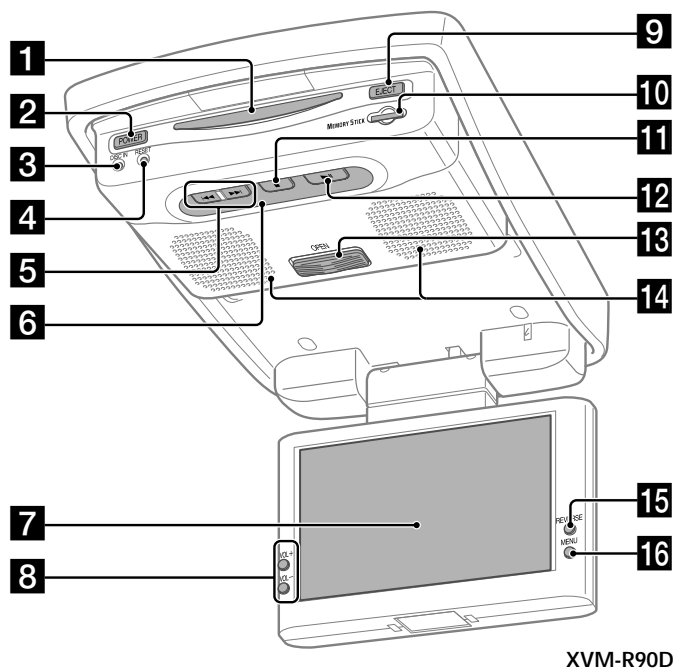
This player conforms to Ver. 1.1 and Ver. 2.0 of Video CD standards. You can enjoy two kinds of playback according to the disc type.

Disc type	You can
Video CDs without PBC functions (Ver. 1.1 discs)	Video playback (moving pictures) as well as music.
Video CDs with PBC functions (Ver. 2.0 discs)	<ul style="list-style-type: none">• Interactive software with menu screens displayed on the monitor.• Video playback functions.• High-resolution still pictures if they are included on the disc.

SECTION 2 GENERAL

This section is extracted from instruction manual.

Location of controls



XVM-R90D

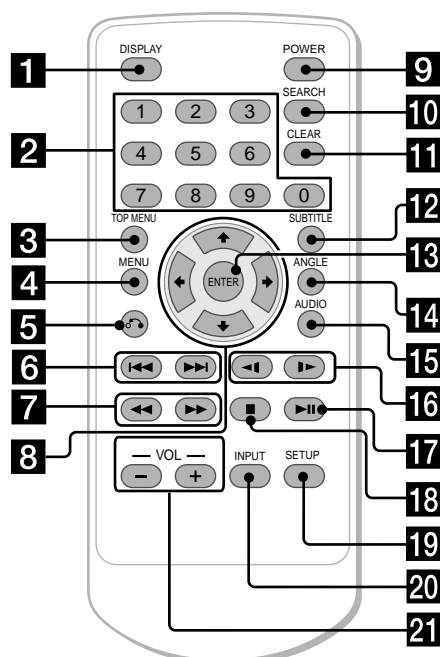
Refer to the pages listed for details.

- | | |
|--|--|
| <p>1 Disc slot</p> <p>2 POWER (on/off) button
To turn on/off the player.</p> <p>3 DISC IN light
When a disc is in the player, the DISC IN light glows orange.</p> <p>4 RESET button</p> <p>5 ◀◀ (previous)/▶▶ (next) buttons</p> <p>6 Receptor for the card remote commander/Transmitter for the cordless headphones</p> <p>7 Monitor</p> <p>8 VOL +/- buttons
To turn up or down the volume or to select the item during menu operation.</p> <p>9 EJECT button
Available to eject a disc from the player even when the player is turned off.</p> | <p>10 "Memory Stick" slot</p> <p>11 ■ (stop) button</p> <p>12 ▶ (play/pause) button</p> <p>13 OPEN button
Slide to open the monitor.</p> <p>14 Speakers (left/right)</p> <p>15 REVERSE button
To switch images upside down and reverse the output of the audio channels.</p> <p>16 MENU button
To make various display settings and FM transmitter setting.</p> |
|--|--|

Note

Even when the player is turned off by pressing (POWER), you can eject a disc from the player, though you cannot insert a disc.

Card remote commander RM-X137



The corresponding buttons of the card remote commander control the same functions as those on the player. Instructions in this manual describe how to use the player by mainly using the card remote commander.

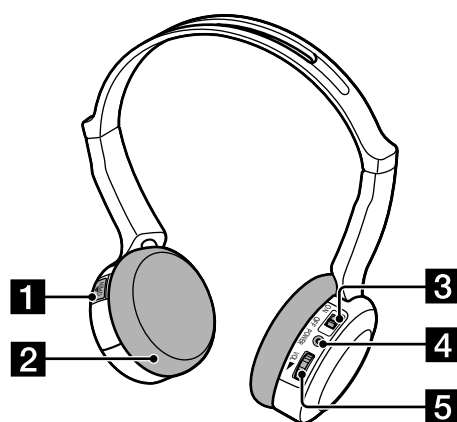
Tip

Refer to "Replacing the lithium battery" for details on how to replace the battery.

Refer to the pages listed for details.

- | | |
|---|--|
| <p>1 DISPLAY button
To display the time information of the disc.</p> <p>2 Number buttons (0 to 9)</p> <p>3 TOP MENU button
To display the top menu of a recorded DVD.</p> <p>4 MENU button
To display the recorded DVD menu, or to turn on/off the PBC (Playback control) menu of a Video CD.</p> <p>5 ↶ (return) button</p> <p>6 ◀▶ (previous/next) buttons</p> <p>7 ◀◀ (fast reverse)/▶▶ (fast forward) buttons</p> <p>8 ⏮/⏭/⏸/⏪ buttons</p> <p>9 POWER (on/off) button
To turn on/off the player.</p> <p>10 SEARCH button
To specify a desired point on a disc by chapter, title, or track.</p> <p>11 CLEAR button</p> | <p>12 SUBTITLE button
To change the subtitle language while playing a DVD.</p> <p>13 ENTER button
To enter a setting.</p> <p>14 ANGLE button
To select the multiple angles of view while playing a DVD.</p> <p>15 AUDIO button
To change the audio output/audio language.</p> <p>16 ◀◀ (slow reverse)/▶▶ (slow forward) buttons</p> <p>17 ▶⏸ (play/pause) button</p> <p>18 ■ (stop) button</p> <p>19 SETUP button
Used to perform menu operations.</p> <p>20 INPUT button
To select the input source.</p> <p>21 VOL (-/+) buttons
To turn up or down the volume.</p> |
|---|--|

Cordless Stereo Headphones MDR-IF0140



- 1 Battery compartment lid**
To set a battery, open the lid.
- 2 Ear pad**
The ear pads are replaceable.
- 3 Power (ON/OFF) switch**
- 4 POWER indicator**
When the power switch of the headphones is set to ON, the POWER indicator lights up in red.
- 5 VOL control dial**
To adjust the volume level from 0 to 10.

Battery life

Size AAA dry battery (1) is supplied with the headphones.

Battery	Approx. hours* ¹
Sony alkaline battery LR03/AM-4 (N)	60 hours* ²
Sony manganese battery R03/UM-4 (NU)	28 hours* ²

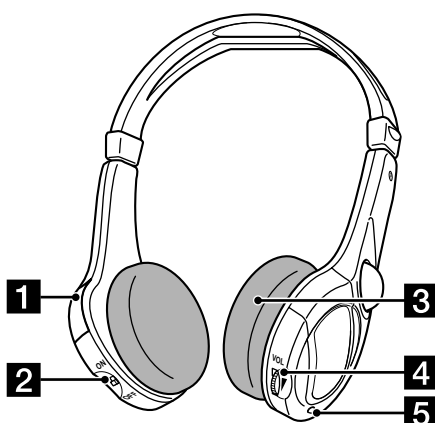
*¹ at 1 kHz, 1 mW+1 mW output

*² Time stated above may vary, depending on the temperature or conditions of use.

Tip

Refer to "Replacing the battery" for details on how to replace the battery.

Cordless Stereo Headphones MV-01HP



- 1 Battery compartment lid**
To set a battery, open the lid.
- 2 Power (ON/OFF) switch**
- 3 Ear pad**
- 4 VOL control dial**
To adjust the volume level from 0 to 10.
- 5 POWER indicator**
When the power switch of the headphones is set to ON, the POWER indicator lights up in red.

Battery life

Size AAA dry battery (2) is supplied with the headphones.

Battery	Approx. hours* ¹
Sony alkaline battery LR03/AM-4 (N)	60 hours* ²
Sony manganese battery R03/UM-4 (NU)	28 hours* ²

*¹ at 1 kHz, 1 mW+1 mW output

*² Time stated above may vary, depending on the temperature or conditions of use.

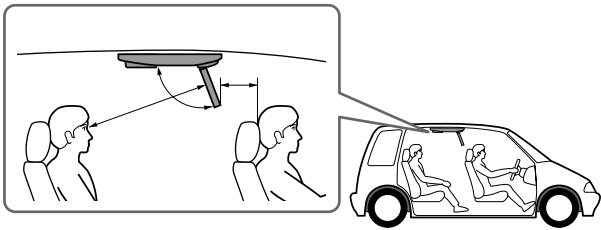
Tip

Refer to "Replacing the battery" for details on how to replace the battery.

Note: There are two types of Cordless Stereo Headphones. For further information, see "NOTE WHEN REPLACING THE CORDLESS STEREO HEADPHONES" (page 3) of the Servicing Notes.

Where to install

Before installing this unit, please check your local traffic rules and regulations. Follow the diagram below to install this unit in a suitable position in your car.



- Do not install this unit where:
- It will obstruct the driver's view when the monitor is in either the open or closed position.
 - It will obstruct the operation of the airbag system.
 - It will obstruct the operation of the vehicle, especially the steering wheel, shift lever, or brake pedal.
 - A driver or passengers may injure themselves when getting into or out of the car.

If you have any questions or problems concerning your unit that are not covered in this manual, please consult your nearest Sony dealer.

Before installing

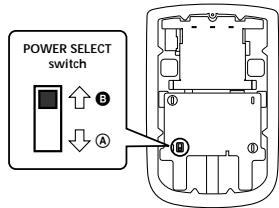
Make sure that the POWER SELECT switch is set to the correct position.

- Ⓐ*: If your car has an accessory position on the ignition key.
Ⓑ: If your car has no accessory position on the ignition key.

* Ⓐ is the factory preset position.

When the POWER SELECT switch is set to Ⓑ

Press (POWER) on the player to turn on. The player does not turn on by pressing (POWER) on the card remote commander.

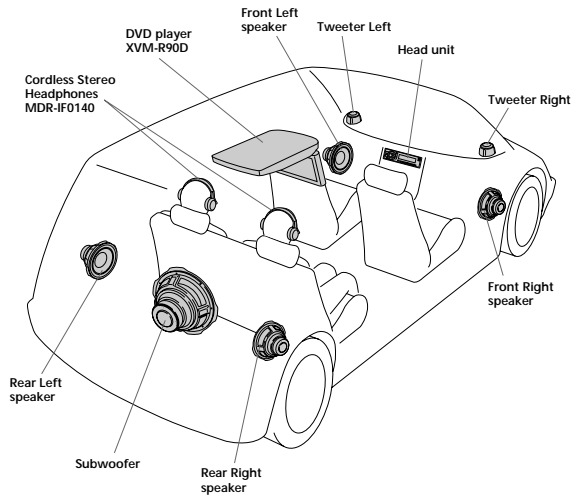


Note
Be sure to turn off the player after driving your car.
To turn off the player, follow the operations below:
— Press (POWER) on the player.
— Press (POWER) on the card remote commander.
If the power is left on, it will cause battery drain.

Connections

Installation diagram

Refer to the installation diagram and ask a qualified technician for the installation of the unit.



Be sure to securely fasten all equipment to the car chassis, etc., to prevent them moving while your car is in motion.

Note
All equipment other than one DVD player and two cordless stereo headphones is optional.

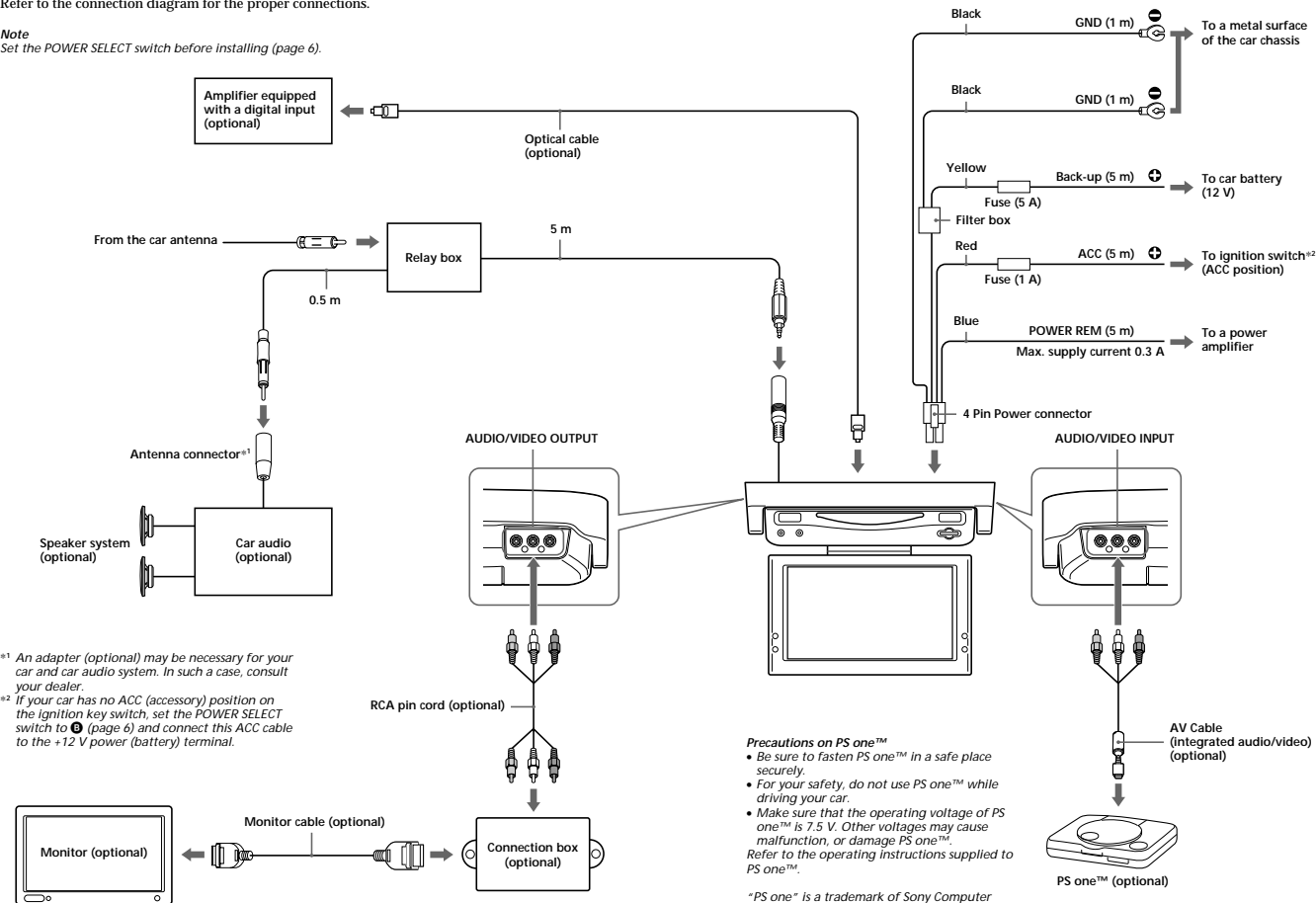
Notes on the locations for PS one™
Do not set PS one™:
— on a dashboard, or in a place subject to direct sunlight.
— in a place near magnetic source such as magnets, speakers and a TV/Monitor.
— on an unstable or uneven surface.
— in a place subject to excessive vibration.
— in a place subject to excessive dust or dirt.
— in poorly ventilated or humid place.
— in a place to subject to temperature extremes (below 5°C (41°F) or above 35°C (95°F)).
Refer to the operating instructions supplied to PS one™.

*PS one™ is a trademark of Sony Computer Entertainment Inc.

Connection diagram

Refer to the connection diagram for the proper connections.

Note
Set the POWER SELECT switch before installing (page 6).



*1 An adapter (optional) may be necessary for your car and car audio system. In such a case, consult your dealer.

*2 If your car has no ACC (accessory) position on the ignition key switch, set the POWER SELECT switch to Ⓑ (page 6) and connect this SELECT cable to the +12 V power (battery) terminal.

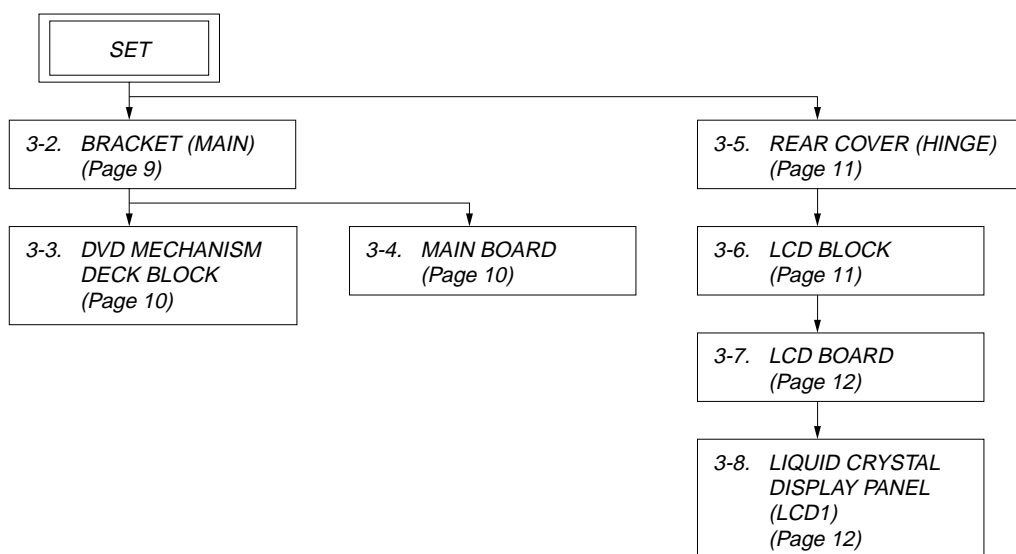
Precautions on PS one™
• Be sure to fasten PS one™ in a safe place securely.
• For your safety, do not use PS one™ while driving your car.
• Make sure that the operating voltage of PS one™ is 7.5 V. Other voltages may cause malfunction, or damage PS one™.
Refer to the operating instructions supplied to PS one™.

*PS one™ is a trademark of Sony Computer Entertainment Inc.

SECTION 3 DISASSEMBLY

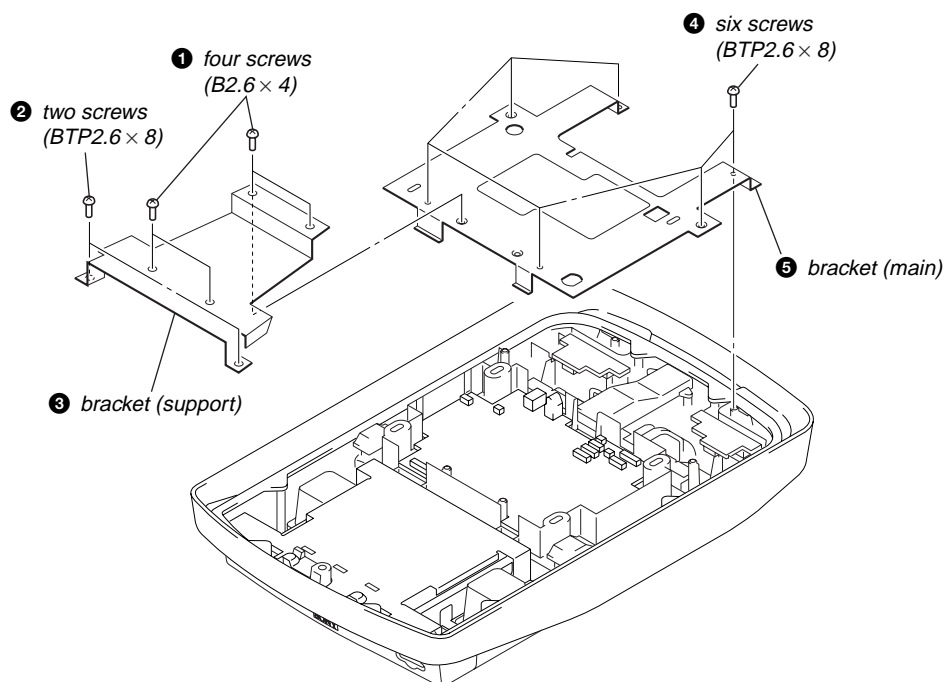
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

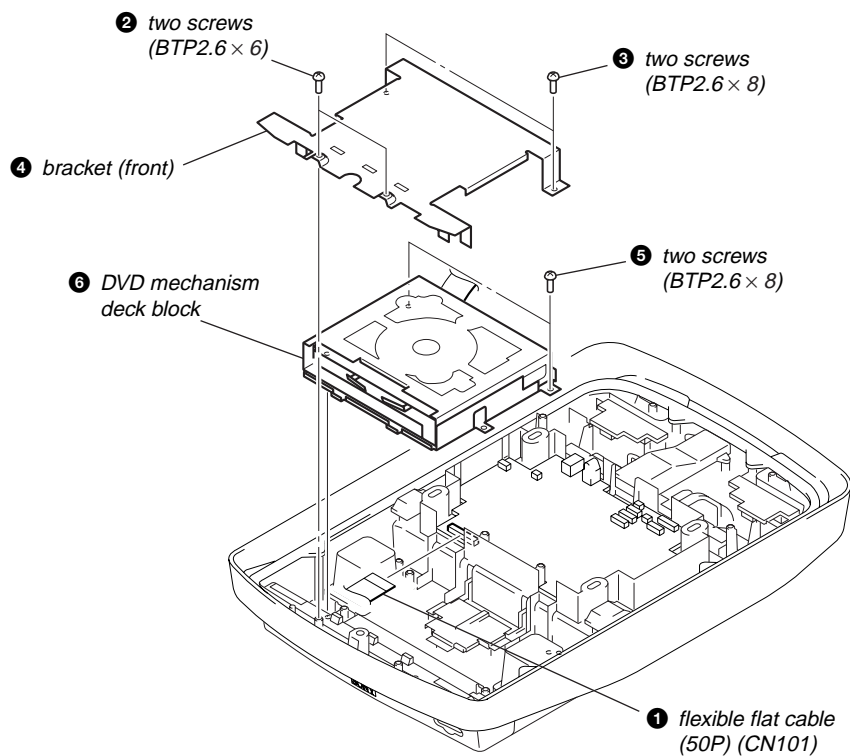


Note: Follow the disassembly procedure in the numerical order given.

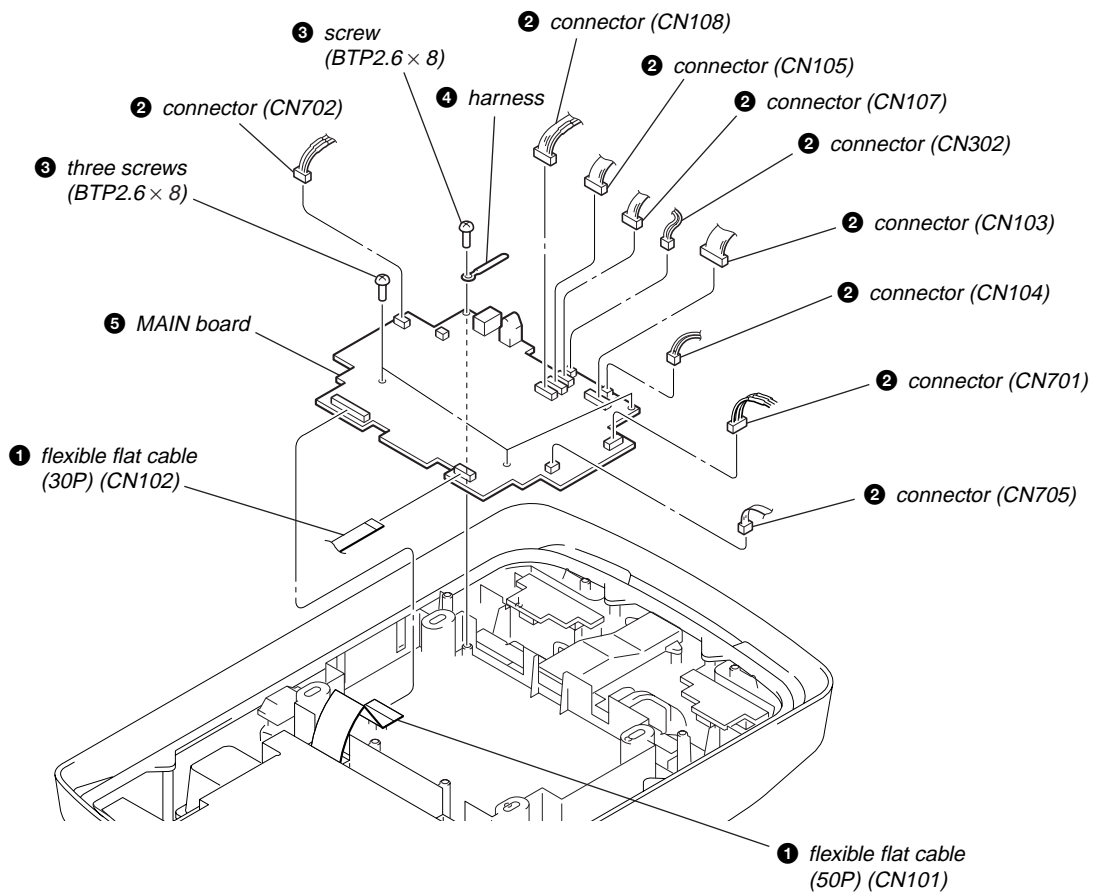
3-2. BRACKET (MAIN)



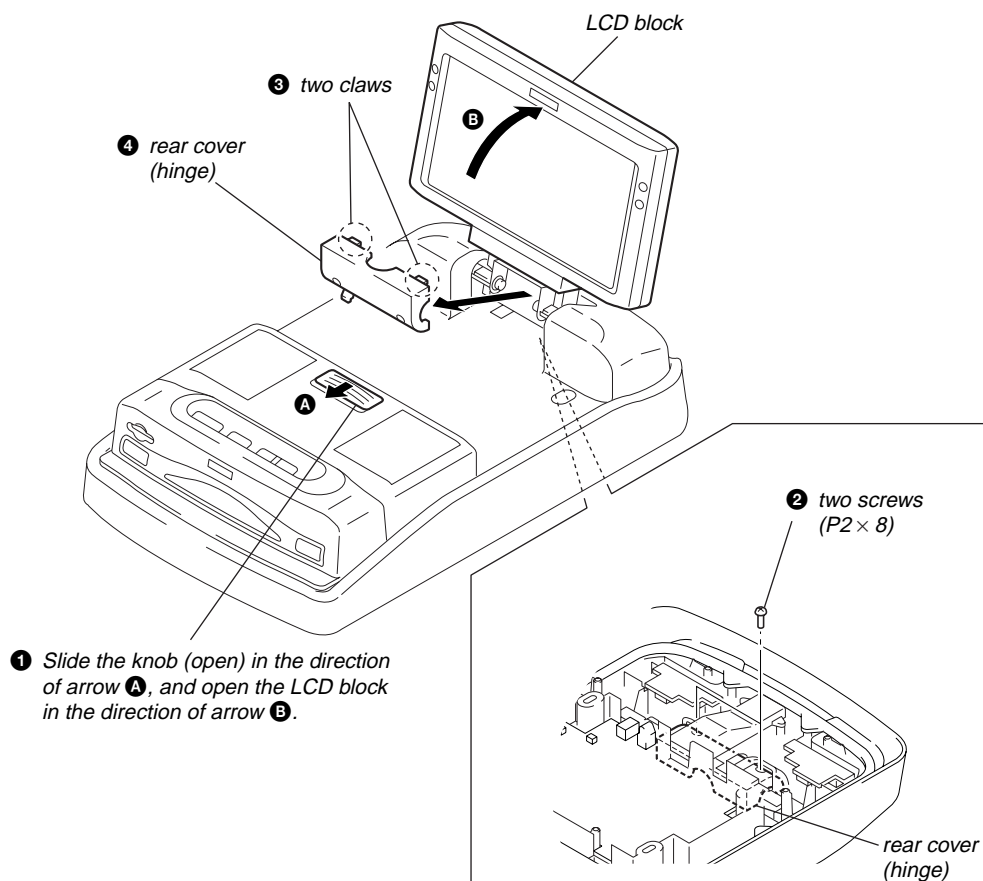
3-3. DVD MECHANISM DECK BLOCK



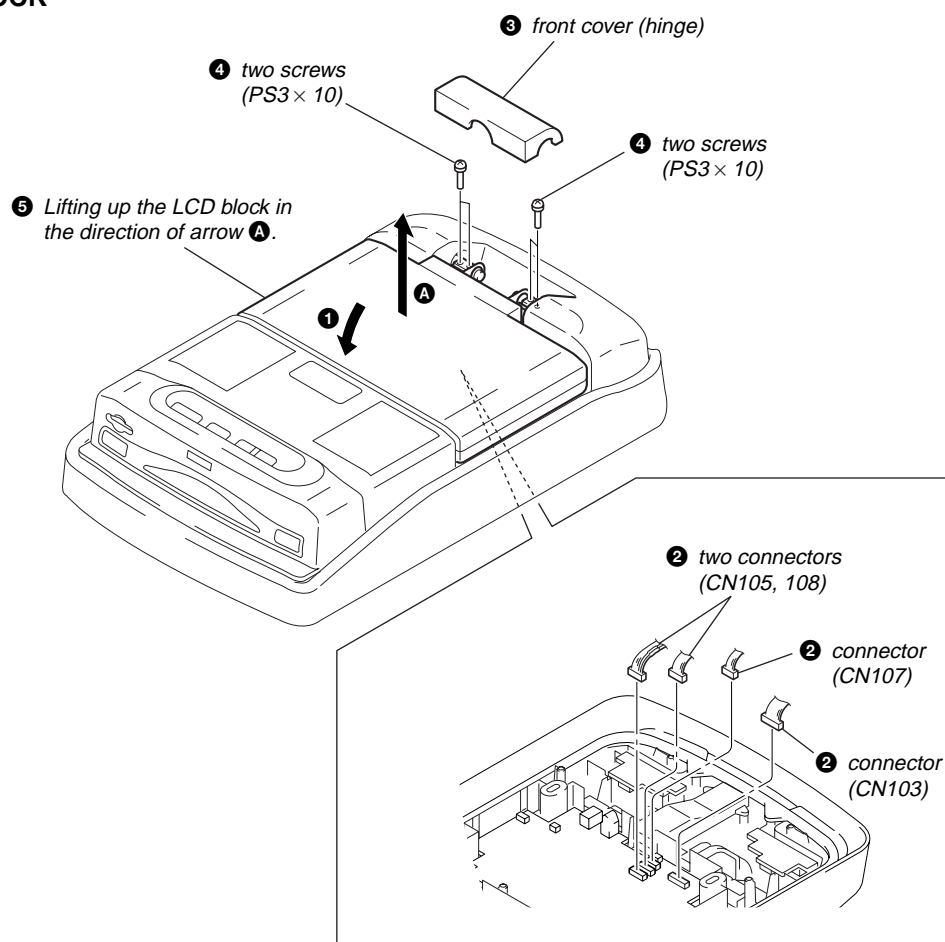
3-4. MAIN BOARD



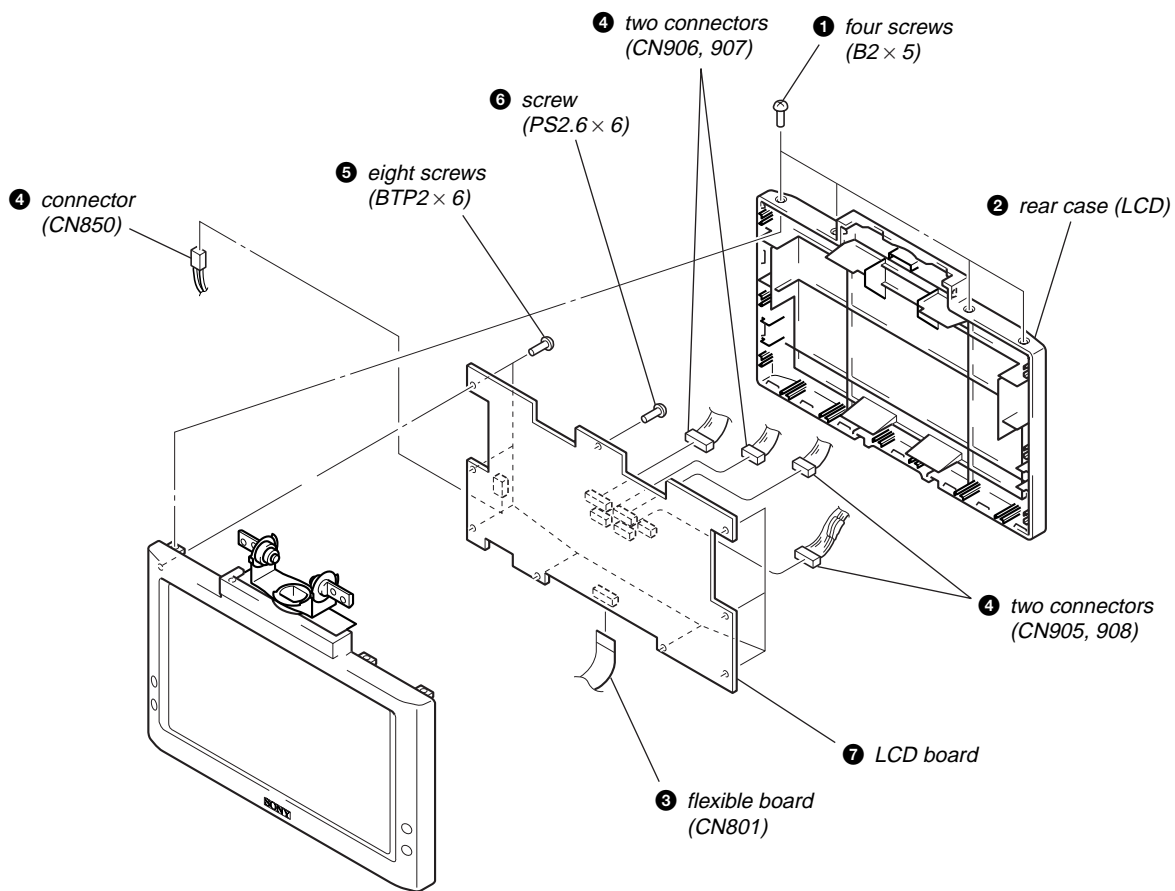
3-5. REAR COVER (HINGE)



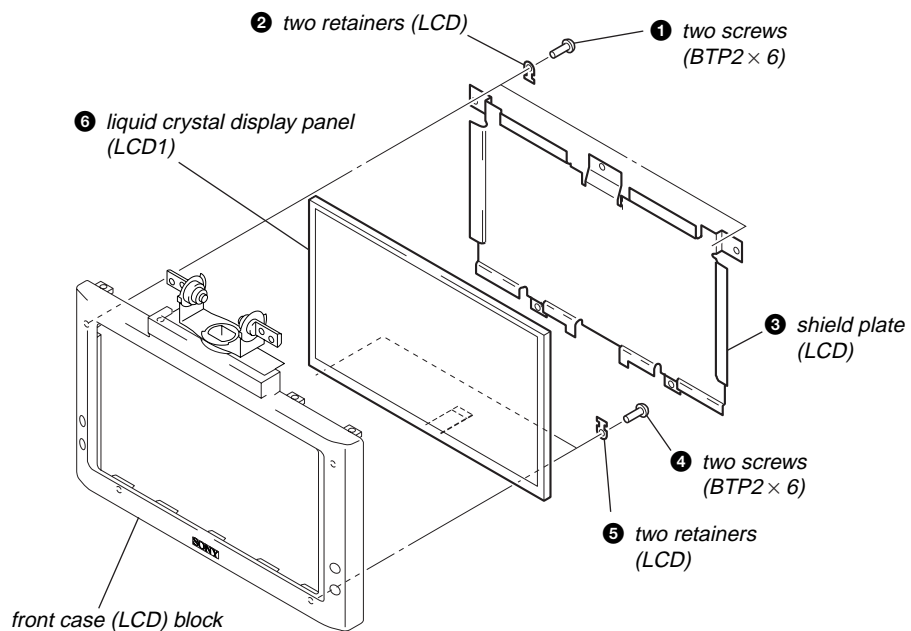
3-6. LCD BLOCK



3-7. LCD BOARD



3-8. LIQUID CRYSTAL DISPLAY PANEL (LCD1)



SECTION 4 TEST MODE

Note: This set is able to setting the adjustment data, reset to factory default and initialize the EEPROM (IC402 on the MONITOR board) in the test mode.

ENTER THE TEST MODE

Procedure:

1. Press the **[POWER]** button to turn the power ON.
2. While pressing the **[VOL -]** and **[◀▶]** buttons, press the **[RESET]** button.
3. The set is enter the test mode and display as bellow figure.

Display

```

TEST MODE MENU
1. NTSC/PAL SELECT
2. FOR FACTORY
3. LCD SETTING
4. FM TRANSMITTER
5. HEAT PROTECTION
6. VOLTAGE SETUP
7. LOAD DEFAULT
8. SOFT RESET (EXIT)
      Dream System 20XX
      Ver. 20XX-XX-XXx
  
```

Note: If initial data is not written to the EEPROM (IC402 on the MONITOR board) or data is clobbered, the set is not able to display normally screen.

BATCH WRITING OF THE INITIAL DATA TO EEPROM

In the test mode, by pressing the **[VOL -]** button at two seconds, batch writing is possible of the initial data to EEPROM (IC402 on the MONITOR board).

OPERATION OF THE TEST MODE

All operations are performed using the bellow buttons.

Button	Function
MENU	Select the item
REVERSE	Enter
VOL +	Up the data value
VOL -	Down the data value

RELEASING THE TEST MODE

In the test mode menu screen, press the **[MENU]** button to select "8. SOFT RESET (EXIT)", and press the **[REVERSE]** button to release the test mode.

OPERATING THE EACH ITEM

1. NTSC/PAL SELECT

In this mode, switch the signal format system to NTSC or PAL.

2. FOR FACTORY

In this mode, change the data of adjustment data.

Enter this mode, it displays each adjustment item as follow.

- 1) Com Gain
- 2) Y Gain
- 3) Black Limit
- 4) White Limit
- 5) R-Sub BRT
- 6) B-Sub BRT
- 7) R-Sub CONT
- 8) B-Sub CONT
- 9) Gamma 1
- 10) Gamma 2
- 11) VCO Free Run
- 12) PLL/V Pos
- 13) H Pos

3. LCD SETTING

This mode is not used in servicing.

4. FM TRANSMITTER

In this mode, switch the frequency range of FM transmitter as follow.

- 1) USA (88.3 to 89.9 MHz)
- 2) Japan (76.5 to 79.5 MHz)
- 3) Transmitter off

5. HEAT PROTECTION

This mode is not used in servicing.

6. VOLTAGE SETUP

This mode is not used in servicing.

7. LOAD DEFAULT

This mode is not used in servicing.

8. SOFT RESET (EXIT)

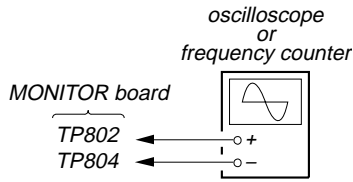
Releasing the test mode.

SECTION 5 ELECTRICAL ADJUSTMENTS

1. DC/DC CONVERTER ADJUSTMENT

1-1. Frequency Adjustment

Setting:

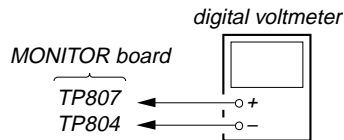


Procedure:

1. Connect an oscilloscope or frequency counter to the TP802 and TP804 on the MONITOR board.
2. Check that the voltage between TP951 (–) and TP952 (+) is 14.4 V. Press the [POWER] button to turn the power on.
3. Adjust the RV801 on the MONITOR board so that the value of oscilloscope or frequency counter becomes 243 kHz \pm 3 kHz.

1-2. 5V Voltage Adjustment

Setting:

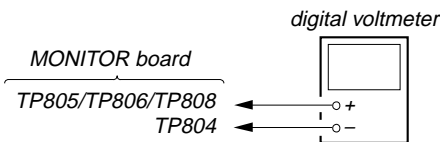


Procedure:

1. Connect a digital voltmeter to the TP804 and TP807 on the MONITOR board.
2. Check that the voltage between TP951 (–) and TP952 (+) is 14.4 V. Press the [POWER] button to turn the power on.
3. Adjust the RV803 on the MONITOR board so that the value of digital voltmeter becomes 5.05 V \pm 0.03 V.

1-3. Other Voltages Check

Setting:



Procedure:

– Vdd Voltage Check –

1. Connect a digital voltmeter to the TP804 and TP808 on the MONITOR board.
2. Check that the voltage between TP951 (–) and TP952 (+) is 14.4 V. Press the [POWER] button to turn the power on.
3. Check that the value of digital voltmeter is 3.45 V \pm 0.2 V.

– Vgh Voltage Check –

4. Connect the digital voltmeter to the TP804 and TP806 on the MONITOR board.

5. Check that the value of digital voltmeter is 17.5 V \pm 1.5 V.

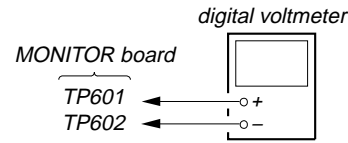
– Vss Voltage Check –

6. Connect the digital voltmeter to the TP804 and TP805 on the MONITOR board.

7. Check that the value of digital voltmeter is –12.0 V \pm 1.5 V.

2. PLL ADJUSTMENT

Setting:

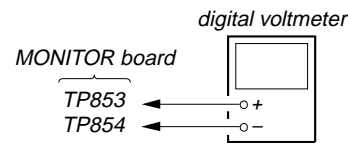


Procedure:

1. Connect a digital voltmeter to the TP601 and TP602 on the MONITOR board.
2. Check that the voltage between TP951 (–) and TP952 (+) is 14.4 V. Press the [POWER] button to turn the power on.
3. Adjust the RV601 on the MONITOR board so that the value of digital voltmeter becomes 2.4 V \pm 0.15 V.

3. INVERTER HIGH VOLTAGE CHECK

Setting:



Procedure:

– High Voltage Check –

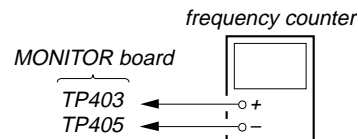
1. Connect a digital voltmeter (for withstand high voltage) to the TP853 and TP854 on the MONITOR board.
2. Check that the voltage between TP951 (–) and TP952 (+) is 14.4 V. Press the [POWER] button to turn the power on. (DIMMER: off)
3. Check that the value of digital voltmeter is 550 V \pm 150 V (rms).

– Frequency Check –

4. Connect an oscilloscope (use a probe for withstand high voltage) to the TP853 and TP854 on the MONITOR board.
5. Check that the frequency of oscilloscope is 66 kHz \pm 2.5 kHz.

4. OSD DOT CLOCK CHECK

Setting:

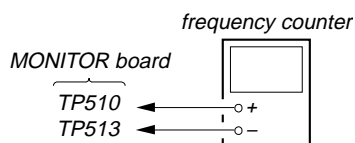


Procedure:

1. Connect a frequency counter (high impedance) to the TP403 and TP405 on the MONITOR board.
2. Check that the voltage between TP951 (–) and TP952 (+) is 14.4 V. Press the [POWER] button to turn the power on.
3. Check that the value of frequency counter is 6.5 MHz \pm 0.2 MHz.

5. NTSC SUB CARRIER CHECK

Setting:

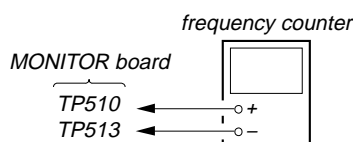


Procedure:

1. Connect a frequency counter (high impedance) to the TP510 and TP513 on the MONITOR board.
2. Check that the voltage between TP951 (-) and TP952 (+) is 14.4 V. Press the **[POWER]** button to turn the power on.
3. In the normal mode, press the **[INPUT]** key on the remote commander to select the "VIDEO" mode.
4. Input NTSC video signal to the "VIDEO INPUT" jack (J701 on the VIDEO (IN) board).
5. Check that the value of frequency counter is 3.579545 MHz ± 100 Hz.

6. PAL SUB CARRIER CHECK

Setting:

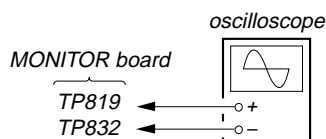


Procedure:

1. Connect a frequency counter (high impedance) to the TP510 and TP513 on the MONITOR board.
2. Check that the voltage between TP951 (-) and TP952 (+) is 14.4 V. Press the **[POWER]** button to turn the power on.
3. In the normal mode, press the **[INPUT]** key on the remote commander to select the "VIDEO" mode.
4. Input PAL video signal to the "VIDEO INPUT" jack (J701 on the VIDEO (IN) board).
5. Check that the value of frequency counter is 4.433619 MHz ± 100 Hz.

7. V-COM ADJUSTMENT

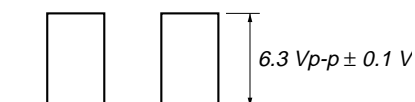
Setting:



Procedure:

– Voltage Set-up Adjustment –

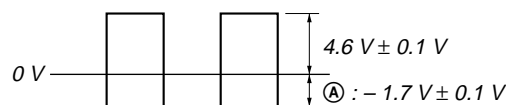
1. Connect an oscilloscope to the TP819 and TP832 on the MONITOR board.
2. Check that the voltage between TP951 (-) and TP952 (+) is 14.4 V. Press the **[POWER]** button to turn the power on.
3. Enter the test mode, and enter the "2. FOR FACTORY" mode. (refer to "4. TEST MODE")
4. Press the **[MENU]** button to display "Com Gain", and press the **[REVERSE]** button.
5. Adjust by pressing the **[+]/[-]** buttons so that the voltage of oscilloscope becomes 6.3 Vp-p ± 0.1 V.



6. Press the **[REVERSE]** button and write the date to EEPROM (IC402 on the MONITOR board).

– Waveform Position Set-up Adjustment –

7. Adjust the RV802 on the MONITOR board so that (A) value of waveform becomes $-1.7 \text{ V} \pm 0.1 \text{ V}$.



8. VIDEO ADJUSTMENT

Note: Perform the following adjustment items in test mode.

Common Setting:

1. Check that the voltage between TP951 (-) and TP952 (+) is 14.4 V. Press the **[POWER]** button to turn the power on.
2. Enter the test mode, and enter the "2. FOR FACTORY" mode. (refer to "4. TEST MODE")
3. Set the signal format system to NTSC. (refer to "4. TEST MODE")
4. Input 10 steps signal (NTSC, without burst) to the VIDEO INPUT jack (J301 on the POWER board) from pattern generator.

Waveform of input signal

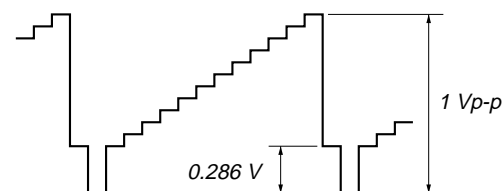


fig. 8-1

Waveform of output signal
(TP810, TP811, TP812)

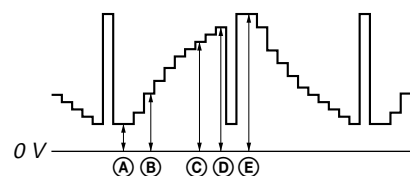
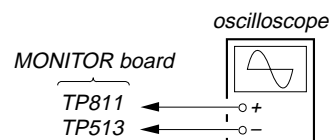


fig. 8-2

① Contrast Level of Luminance Signal

Setting:



Procedure:

1. Connect an oscilloscope to the TP513 and TP811 on the MONITOR board.
2. Press the **[MENU]** button to display "Y Gain", and press the **[REVERSE]** button.
3. Adjust by pressing the **[+]/[-]** buttons so that the D value of waveform (fig. 8-2) becomes $3.4 \text{ V}^{+0.2}_{-0.1} \text{ V}$.
4. Press the **[REVERSE]** button and write the date to EEPROM (IC402 on the MONITOR board).

② Back Limiter Level

Procedure:

1. In the “① Contrast Level of Luminance Signal” status, press the **[MENU]** button to display “Black Limit”, and press the **[REVERSE]** button.
2. Adjust by pressing the **[+]/[-]** buttons so that the **(A)** value of waveform (fig. 8-2) becomes $1.0\text{ V}_{-0.1}^{+0.2}$ V.
3. Press the **[REVERSE]** button and write the date to EEPROM (IC402 on the MONITOR board).

③ White Limiter Level

Procedure:

1. In the “② Black Limiter Level” status, press the **[MENU]** button to display “White Limit”, and press the **[REVERSE]** button.
2. Adjust by pressing the **[+]/[-]** buttons so that the **(E)** value of waveform (fig. 8-2) becomes $3.9\text{ V}_{-0.1}^{+0.2}$ V.
3. Press the **[REVERSE]** button and write the date to EEPROM (IC402 on the MONITOR board).

④ R-sub Bright

Procedure:

1. In the “③ White Limiter Level” status, connect the oscilloscope to the TP513 and TP810 on the MONITOR board.
2. Press the **[MENU]** button to display “R-Sub BRT”, and press the **[REVERSE]** button.
3. Adjust by pressing the **[+]/[-]** buttons so that the **(A)** value of waveform (fig. 8-2) becomes $1.0\text{ V}_{-0.1}^{+0.2}$ V.
4. Press the **[REVERSE]** button and write the date to EEPROM (IC402 on the MONITOR board).

⑤ B-sub Bright

Procedure:

1. In the “④ R-sub Bright” status, connect the oscilloscope to the TP513 and TP812 on the MONITOR board.
2. Press the **[MENU]** button to display “B-Sub BRT”, and press the **[REVERSE]** button.
3. Adjust by pressing the **[+]/[-]** buttons so that the **(A)** value of waveform (fig. 8-2) becomes $1.0\text{ V}_{-0.1}^{+0.2}$ V.
4. Press the **[REVERSE]** button and write the date to EEPROM (IC402 on the MONITOR board).

⑥ R-ch Sub Contrast

Procedure:

1. In the “⑤ B-sub Bright” status, connect the oscilloscope to the TP513 and TP810 on the MONITOR board.
2. Press the **[MENU]** button to display “R-Sub CONT”, and press the **[REVERSE]** button.
3. Adjust by pressing the **[+]/[-]** buttons so that the **(D)** value of waveform (fig. 8-2) becomes $3.4\text{ V}_{-0.1}^{+0.2}$ V.
4. Press the **[REVERSE]** button and write the date to EEPROM (IC402 on the MONITOR board).

⑦ B-ch Sub Contrast

Procedure:

1. In the “⑥ R-ch Sub Contrast” status, connect the oscilloscope to the TP513 and TP812 on the MONITOR board.
2. Press the **[MENU]** button to display “B-Sub CONT”, and press the **[REVERSE]** button.
3. Adjust by pressing the **[+]/[-]** buttons so that the **(D)** value of waveform (fig. 8-2) becomes $3.4\text{ V}_{-0.1}^{+0.2}$ V.
4. Press the **[REVERSE]** button and write the date to EEPROM (IC402 on the MONITOR board).

⑧ Gamma 1

Procedure:

1. In the “⑦ B-ch Sub Contrast” status, connect the oscilloscope to the TP513 and TP811 on the MONITOR board.
2. Press the **[MENU]** button to display “Gamma 1”, and press the **[REVERSE]** button.
3. Adjust by pressing the **[+]/[-]** buttons so that the **(B)** value of waveform (fig. 8-2) becomes $1.9\text{ V}_{-0.1}^{+0.2}$ V.
4. Press the **[REVERSE]** button and write the date to EEPROM (IC402 on the MONITOR board).

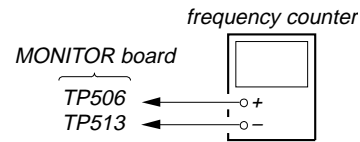
⑨ Gamma 2

Procedure:

1. In the “⑧ Gamma 1” status, press the **[MENU]** button to display “Gamma 2”, and press the **[REVERSE]** button.
2. Adjust by pressing the **[+]/[-]** buttons so that the **(C)** value of waveform (fig. 8-2) becomes $3.1\text{ V}_{-0.1}^{+0.2}$ V.
3. Press the **[REVERSE]** button and write the date to EEPROM (IC402 on the MONITOR board).

⑩ VCO Free Run

Setting:



Procedure:

1. In the “⑨ Gamma 2” status, connect a frequency counter to the TP506 and TP513 on the MONITOR board.
2. Press the **[MENU]** button to display “VCO Free Run”, and press the **[REVERSE]** button.
3. Adjust by pressing the **[+]/[-]** buttons so that the value of frequency counter becomes $15.734\text{ kHz} \pm 50\text{ Hz}$.
4. Confirm that the displayed screen is normally display.
5. Press the **[REVERSE]** button and write the date to EEPROM (IC402 on the MONITOR board).

⑪ Vertical Position

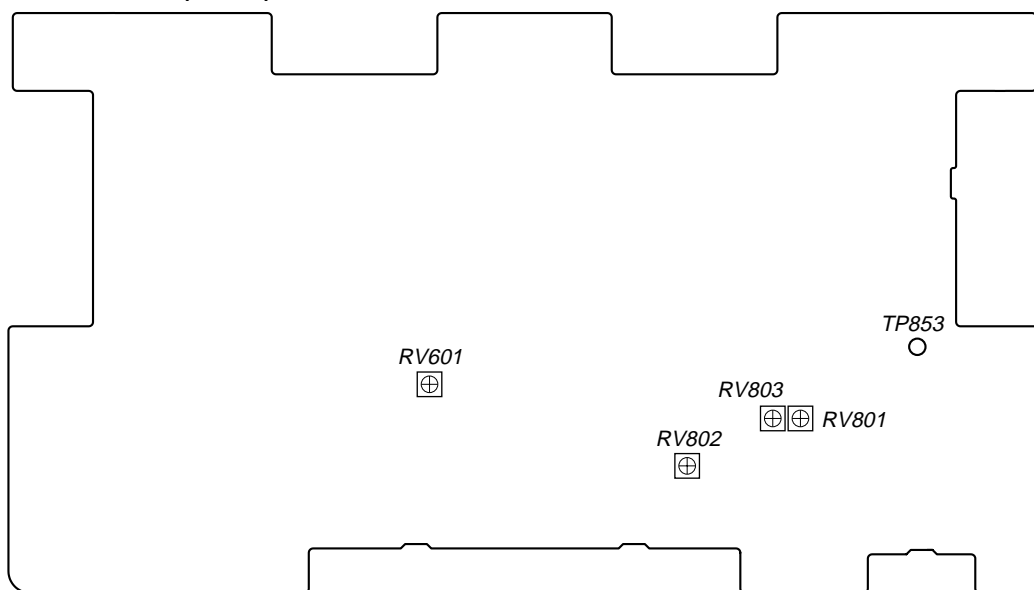
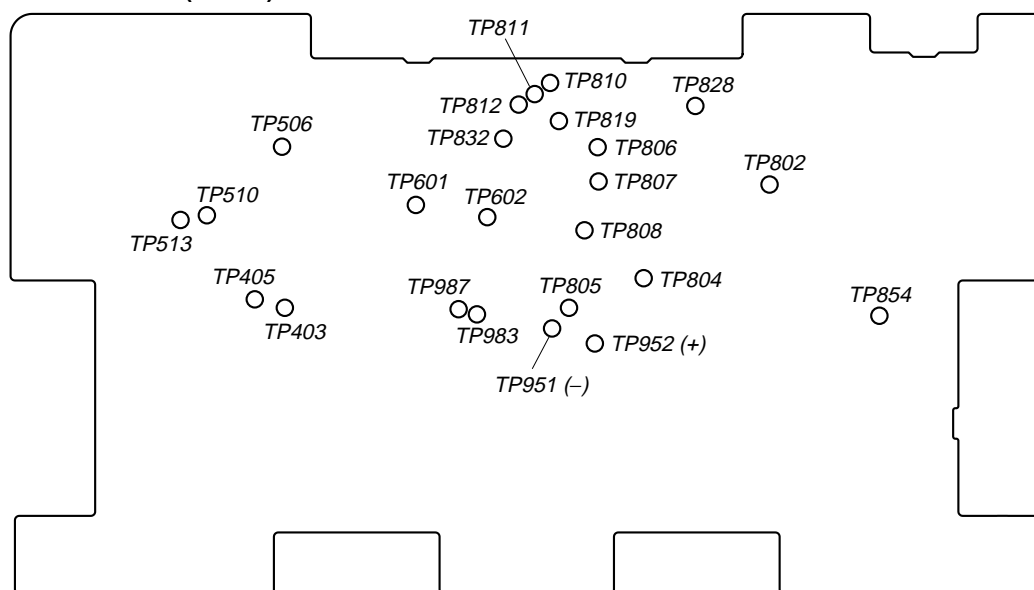
Procedure:

1. In the “⑩ VCO Free Run” status, input the monoscope signal to the VIDEO INPUT jack (J301 on the POWER board).
2. Press the **[MENU]** button to display “PLL/V Pos”, and press the **[REVERSE]** button.
3. Adjust by pressing the **[+]/[-]** buttons so that the vertical position of screen on the monitor becomes the most suitable.
4. Press the **[REVERSE]** button and write the date to EEPROM (IC402 on the MONITOR board).

⑫ Horizontal Position

Procedure:

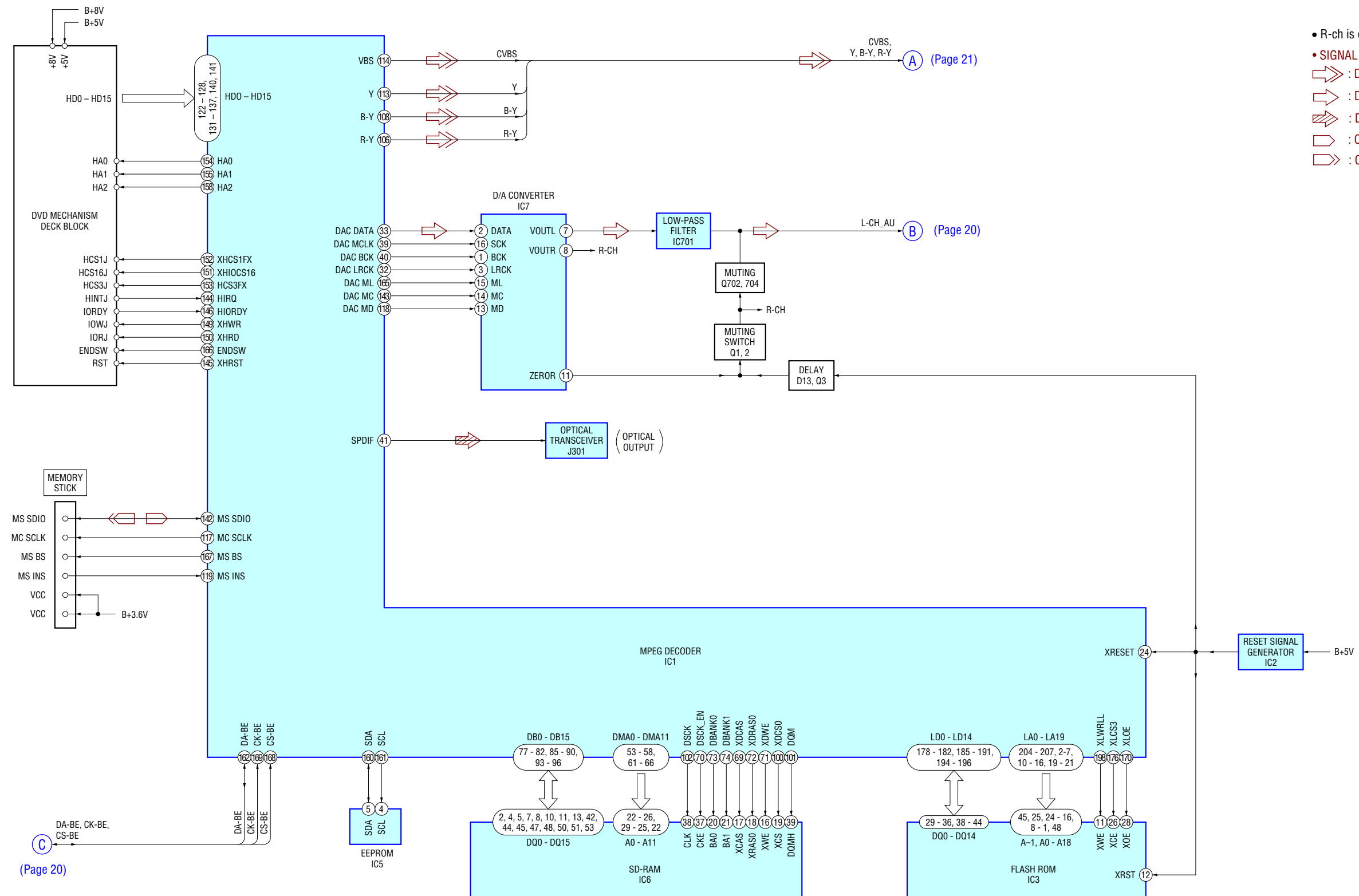
1. In the “⑪ Vertical Position” status, press the **[MENU]** button to display “H Pos”, and press the **[REVERSE]** button.
2. Adjust by pressing the **[+]/[-]** buttons so that the horizontal position of screen on the monitor becomes the most suitable.
3. Press the **[REVERSE]** button and write the date to EEPROM (IC402 on the MONITOR board).

Adjustment Location:**– LCD BOARD (Side A) –****– LCD BOARD (Side B) –**

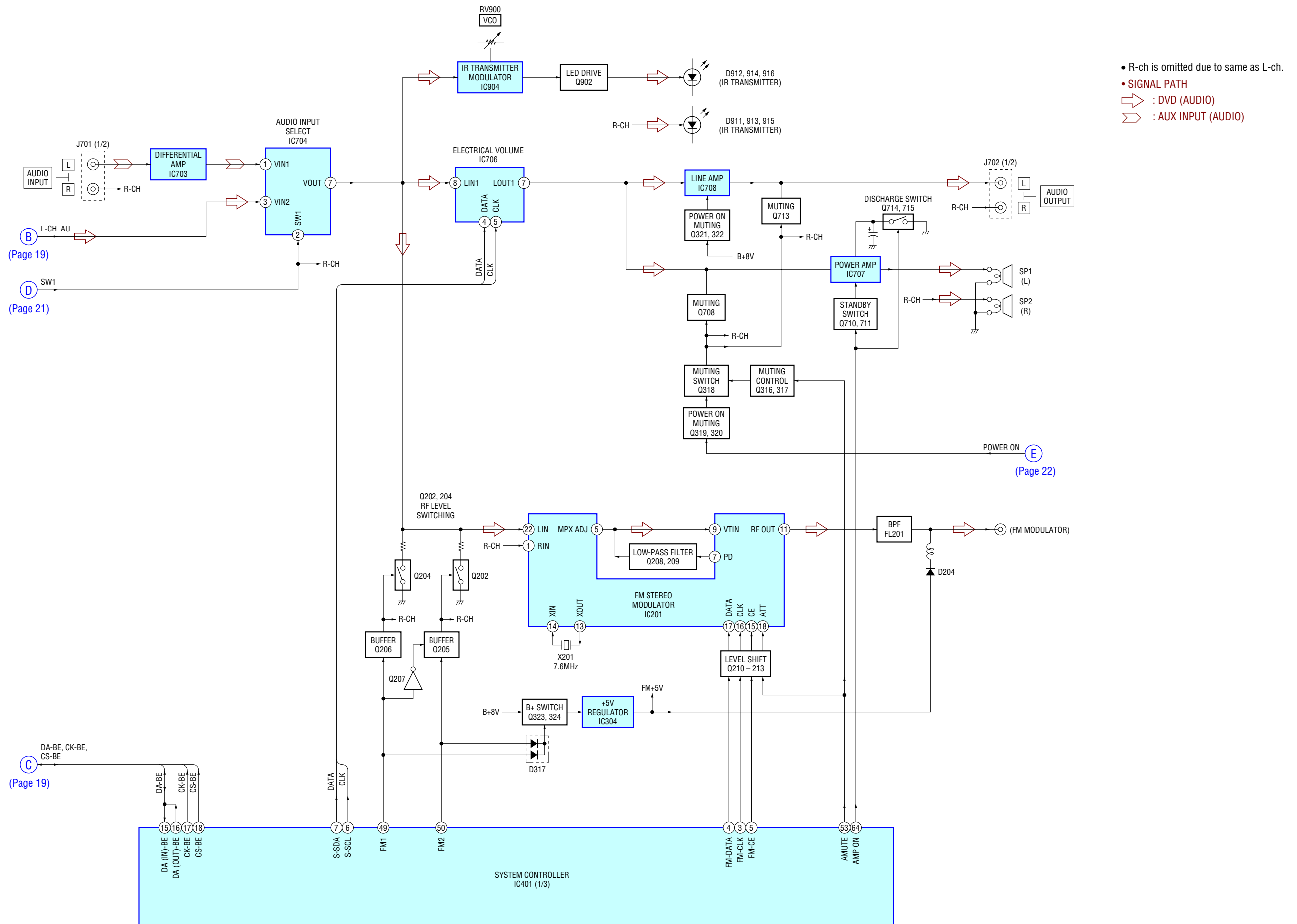
MEMO

SECTION 6 DIAGRAMS

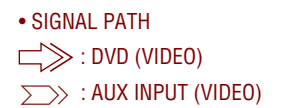
6-1. BLOCK DIAGRAM – MPEG DECODER Section –



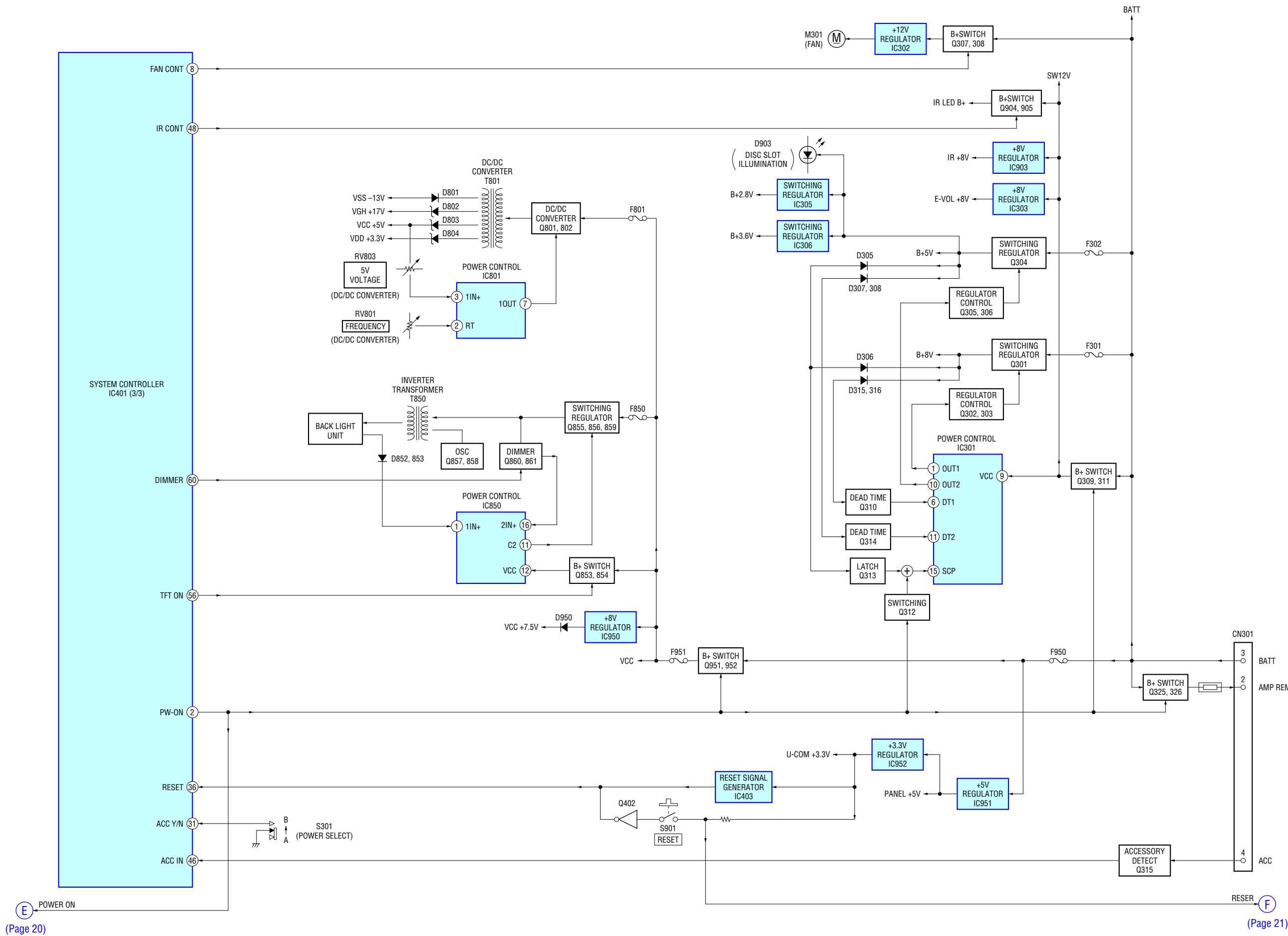
6-2. BLOCK DIAGRAM – AUDIO Section –



(Page 22)



6-4. BLOCK DIAGRAM – POWER SUPPLY Section –



• Note for Printed Wiring Boards and Schematic Diagrams

Note on Printed Wiring Boards:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : parts mounted on the conductor side.
- : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

Caution:

Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

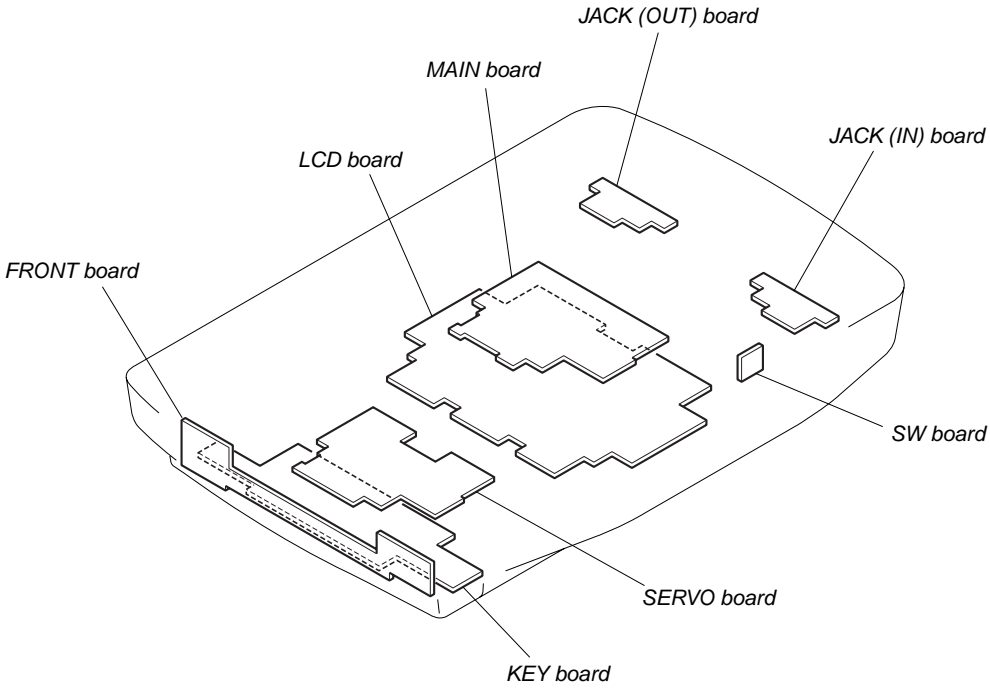
Caution:

Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

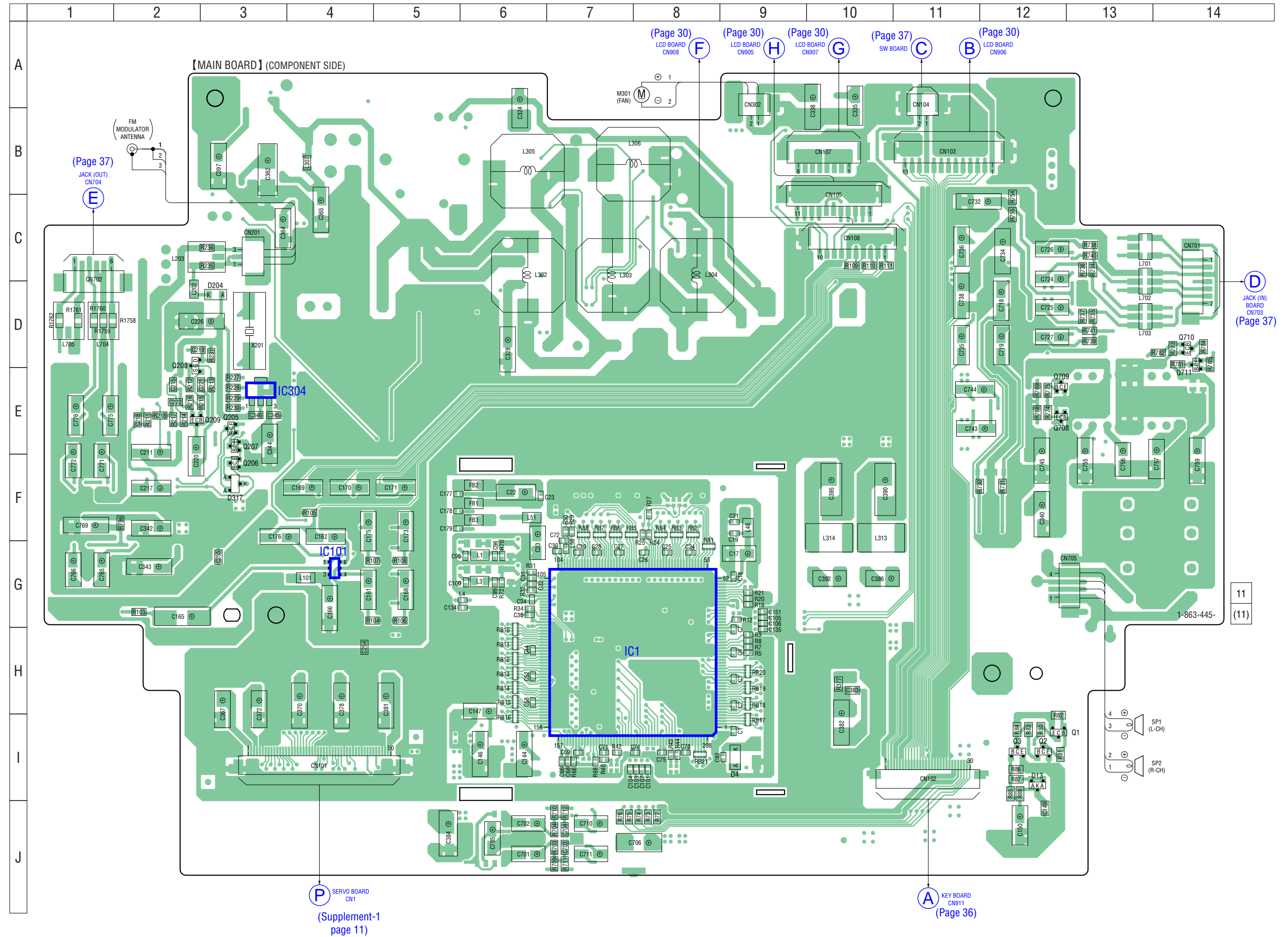
Note on Schematic Diagram:

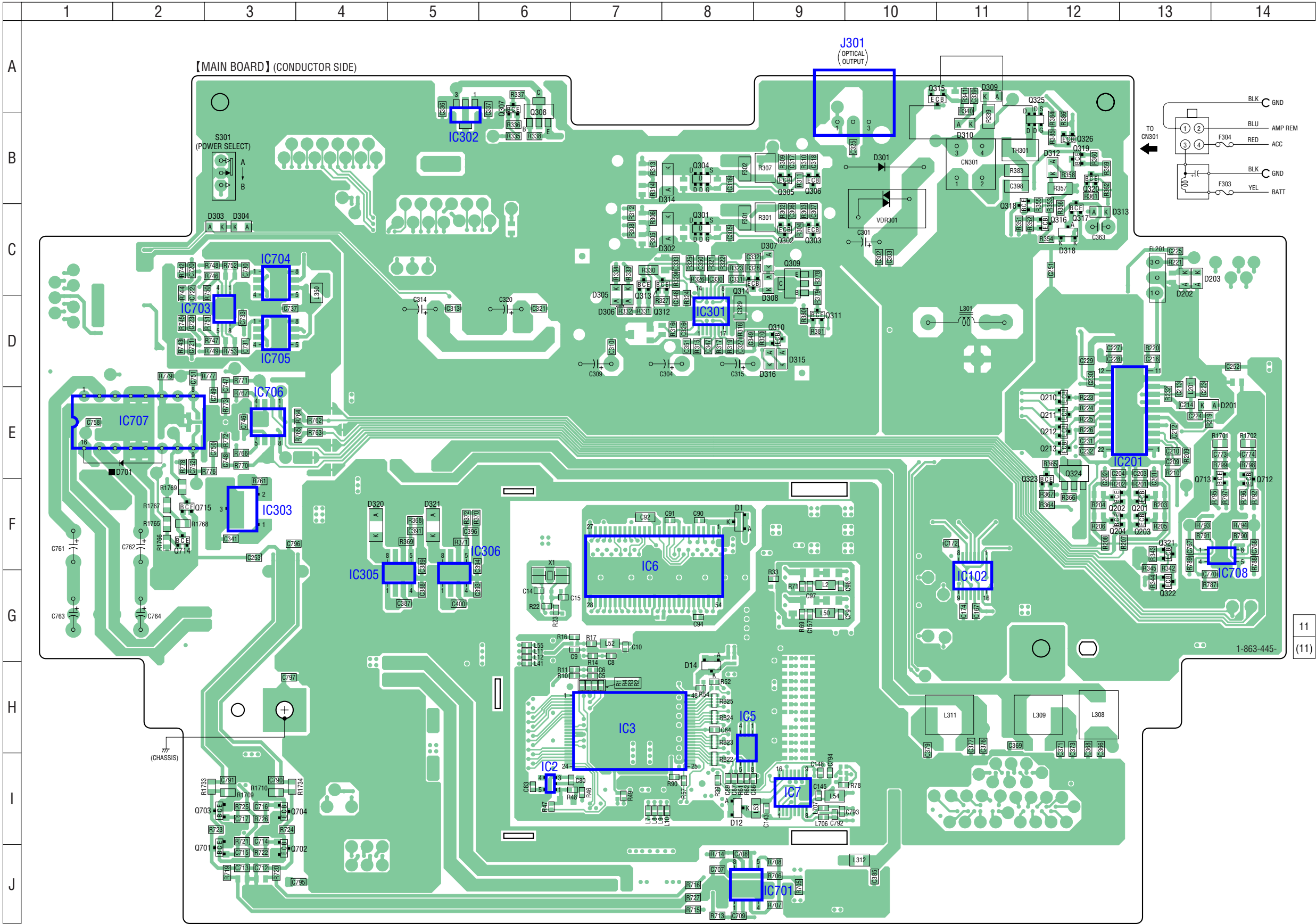
- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- : panel designation.
- : B+ Line.
- - - : B- Line.
- : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark : DVD PLAY
() : STANDBY
* : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
⇒ : DVD (VIDEO)
⇒ : DVD (AUDIO)
⇒ : DIGITAL OUT
⇒ : AUX INPUT (VIDEO)
⇒ : AUX INPUT (AUDIO)
□ : CHECK IN
□ : CHECK OUT

• Circuit Boards Location



Ref. No.	Location
D4	I-9
D13	I-12
D204	D-3
D317	F-3
IC1	H-7
IC101	G-4
IC304	E-3
Q1	I-12
Q2	I-12
Q3	I-12
Q205	E-3
Q206	F-3
Q207	E-3
Q208	D-2
Q209	E-3
Q708	E-12
Q709	E-12
Q710	D-14
Q711	D-14





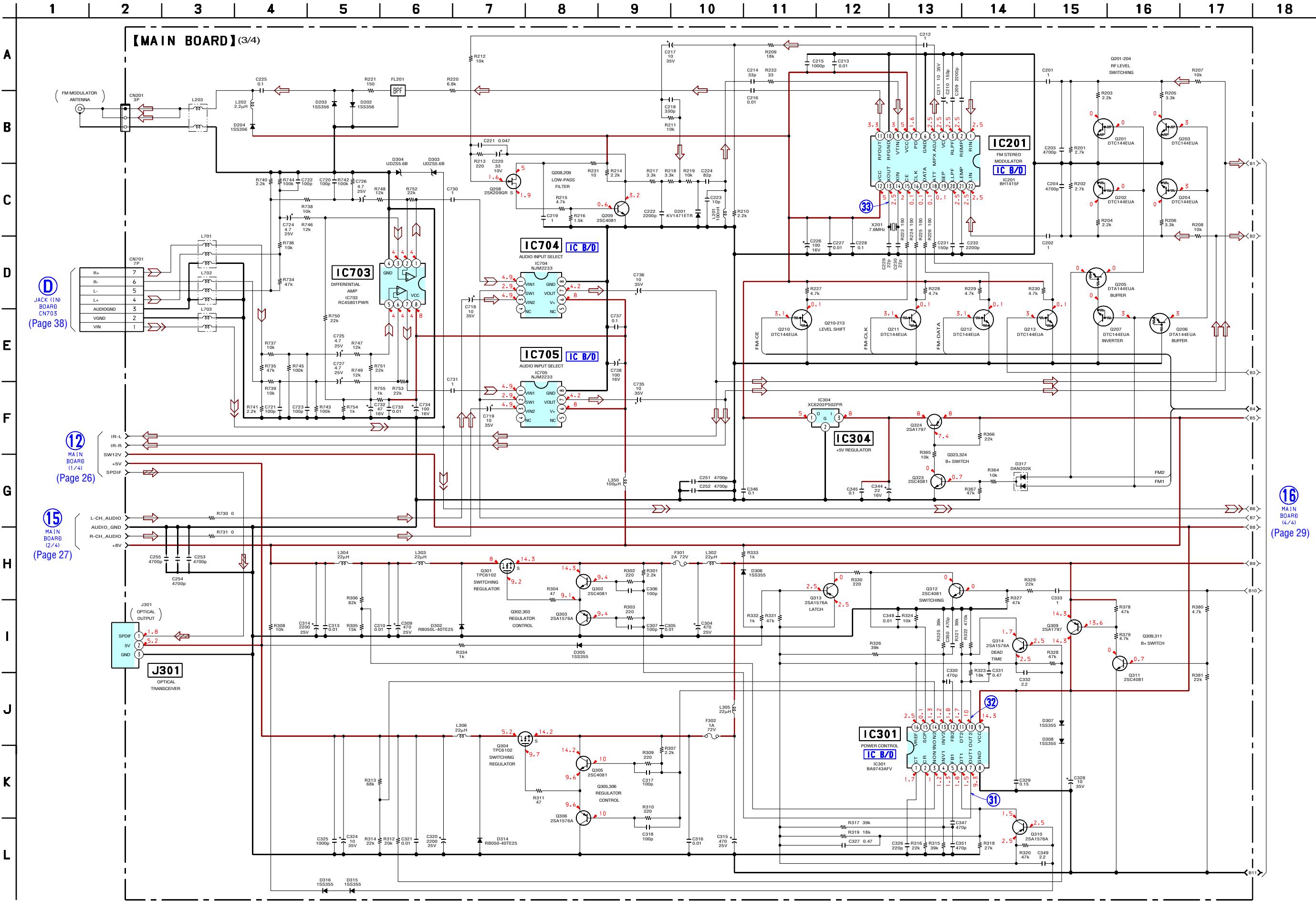
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1	F-8	D302	C-8	D309	A-11	D318	C-12	IC5	H-8	IC303	F-3	IC706	E-3	Q202	F-13	Q301	C-8	Q308	A-6	Q315	A-11	Q322	G-13	Q703	I-3
D12	I-8	D303	C-3	D310	B-11	D320	F-4	IC6	F-7	IC305	F-4	IC707	E-2	Q203	F-13	Q302	C-9	Q309	C-9	Q316	C-12	Q323	E-12	Q704	I-3
D14	H-8	D304	C-3	D312	B-12	D321	F-5	IC7	I-9	IC306	F-6	IC708	F-14	Q204	F-13	Q303	C-9	Q310	D-9	Q317	C-12	Q324	E-12	Q712	F-14
D201	E-14	D305	D-7	D313	C-12	D701	E-1	IC102	G-11	IC701	J-9			Q210	E-12	Q304	B-8	Q311	D-9	Q318	C-11	Q325	B-12	Q713	F-14
D202	C-13	D306	D-7	D314	B-8			IC201	E-13	IC703	D-3	J301	A-10	Q211	E-12	Q305	B-9	Q312	D-7	Q319	B-12	Q326	B-12		
D203	C-13	D307	C-9	D315	D-9	IC2	I-6	IC301	D-8	IC704	C-3			Q212	E-12	Q306	B-9	Q313	C-7	Q320	B-12	Q701	J-3		
D301	B-10	D308	C-9	D316	D-9	IC3	H-7	IC302	B-5	IC705	D-3	Q201	F-13	Q213	E-12	Q307	A-6	Q314	C-8	Q321	F-13	Q702	J-3		

27 27



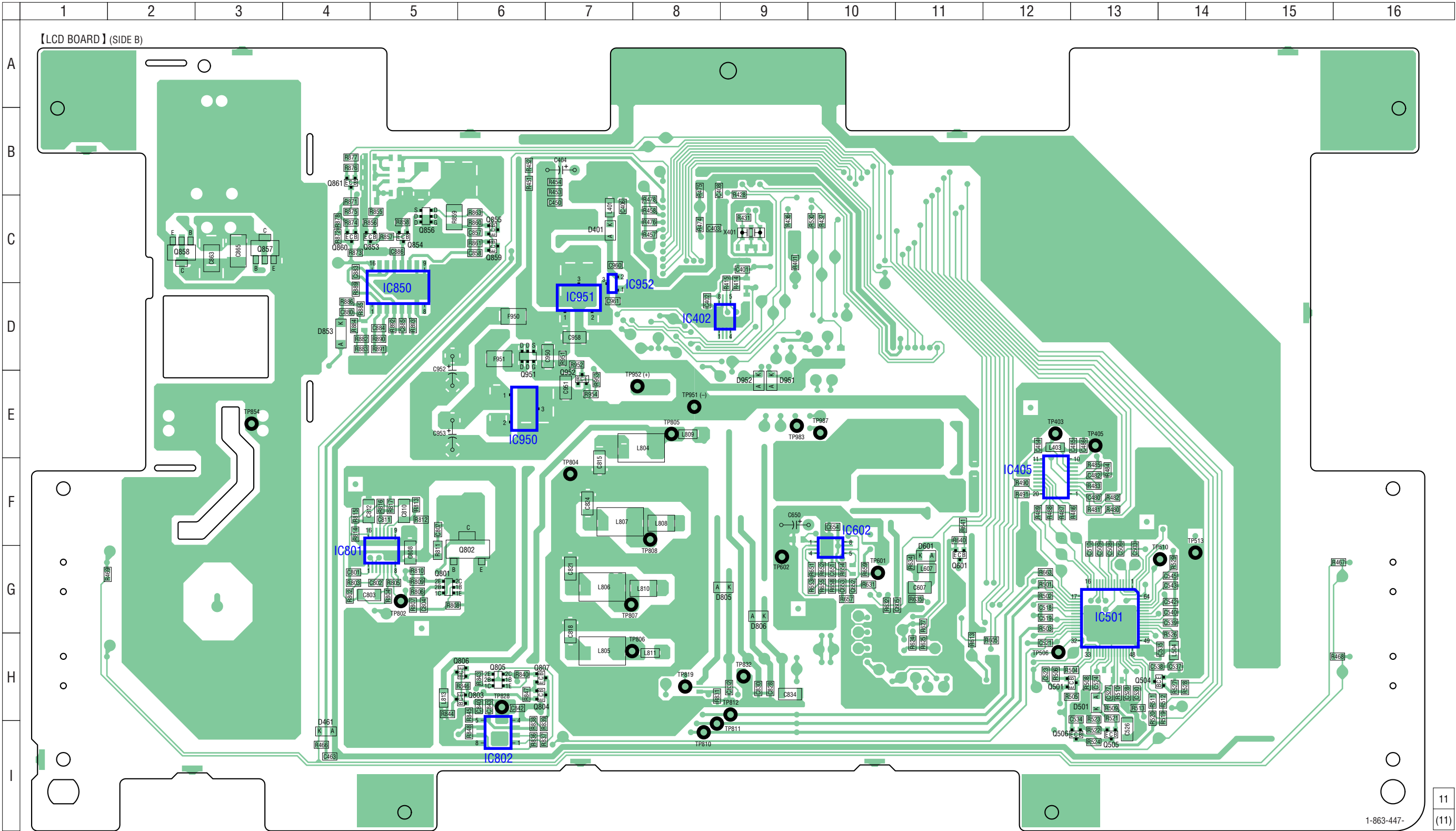
6-9. SCHEMATIC DIAGRAM – MAIN Board (3/4) – • See page 38 for Waveforms. • See page 41 for IC Block Diagrams.





Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D402	C-10	D852	G-14	IC403	B-9	Q503	H-4
D602	F-7	D950	E-11	IC601	G-6	Q603	H-6
D801	E-10	D954	D-9			Q953	C-10
D802	G-11	D955	D-9	Q401	B-9	Q955	C-10
D803	G-11	D956	D-9	Q402	B-9		
D804	F-11			Q403	B-9		
D851	D-12	IC401	C-8	Q502	H-3		

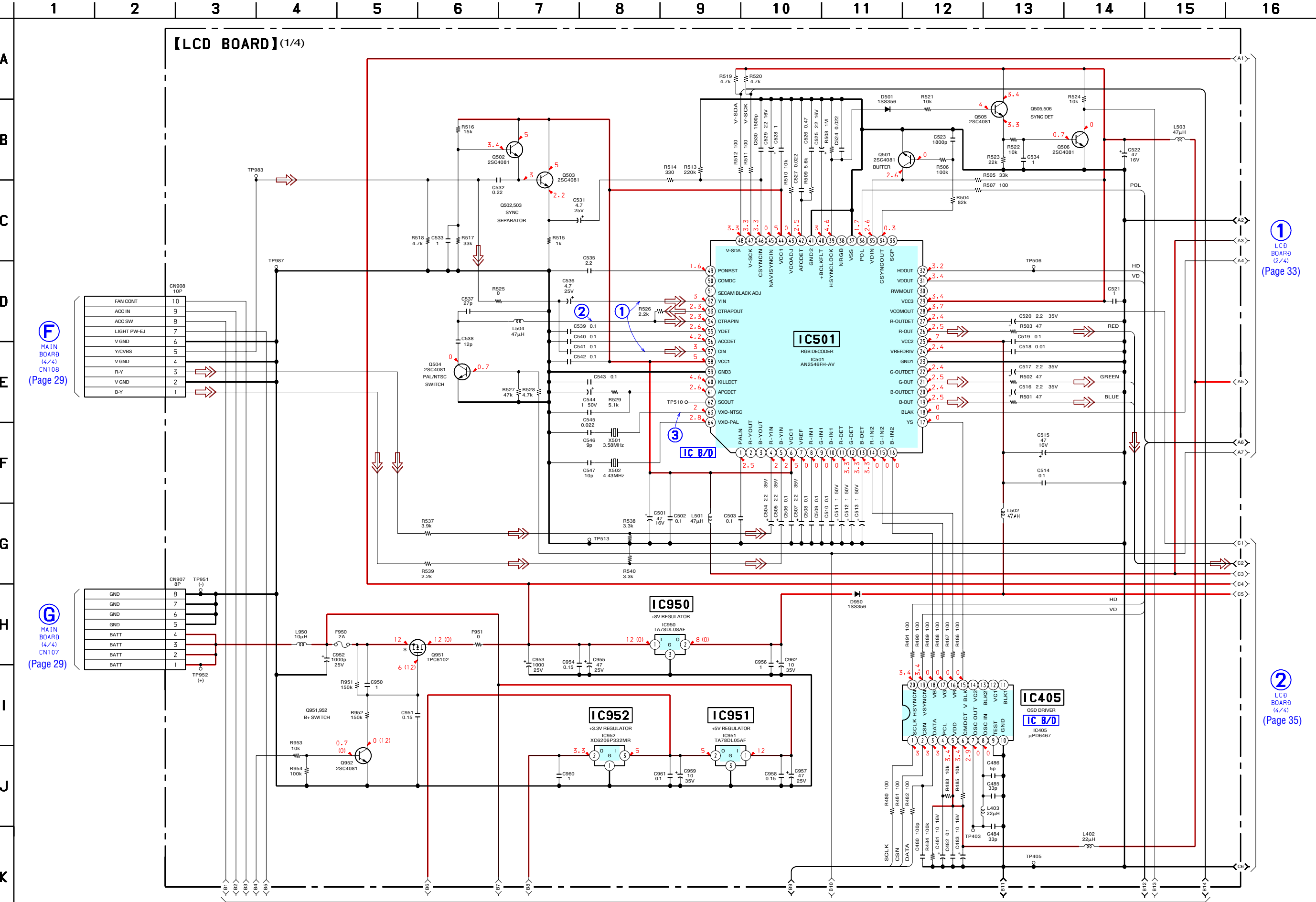
6-12. PRINTED WIRING BOARD – LCD Board (Side B) – • See page 23 for Circuit Boards Location.  : Uses unleaded solder.

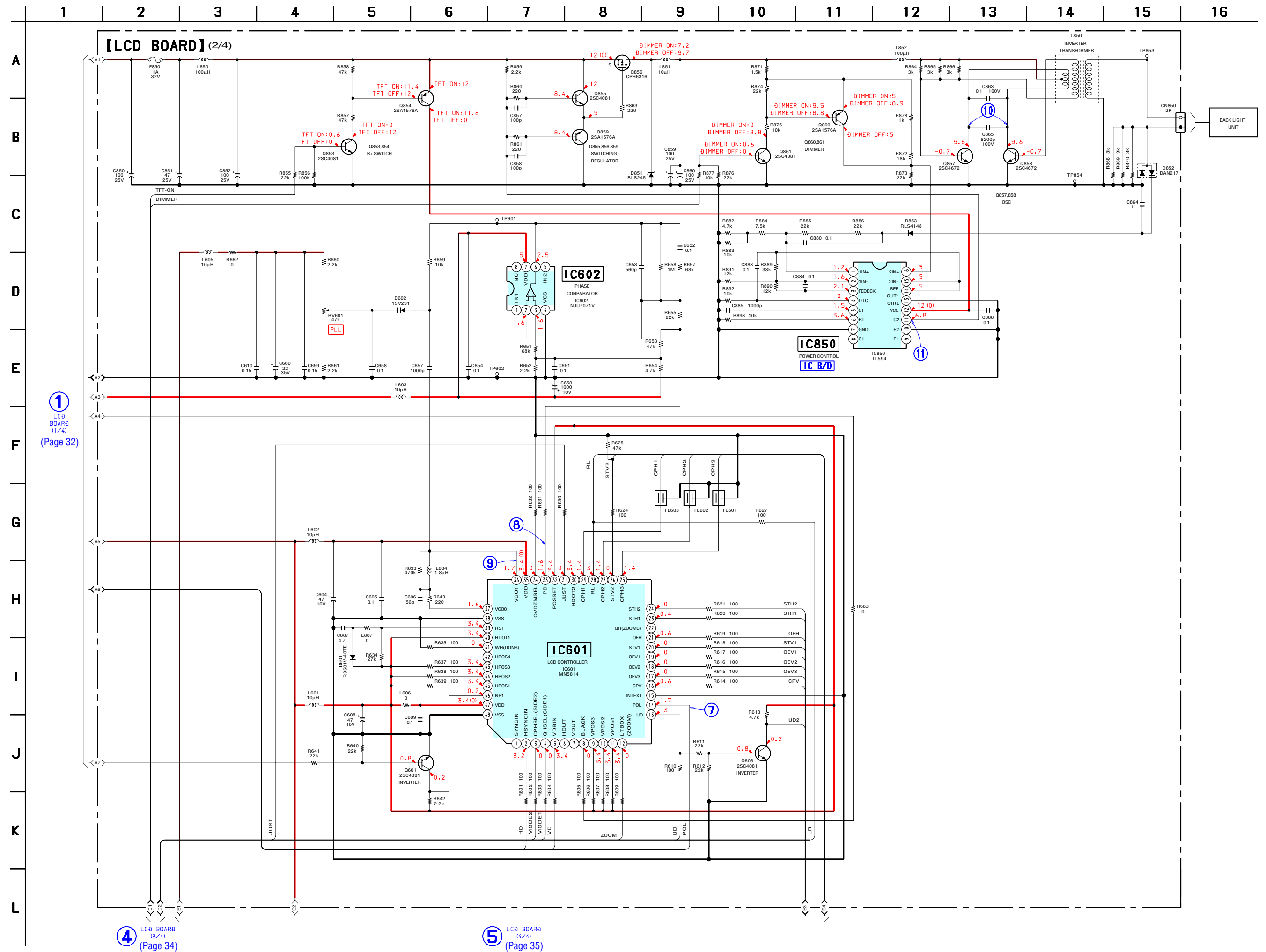


• Semiconductor Location

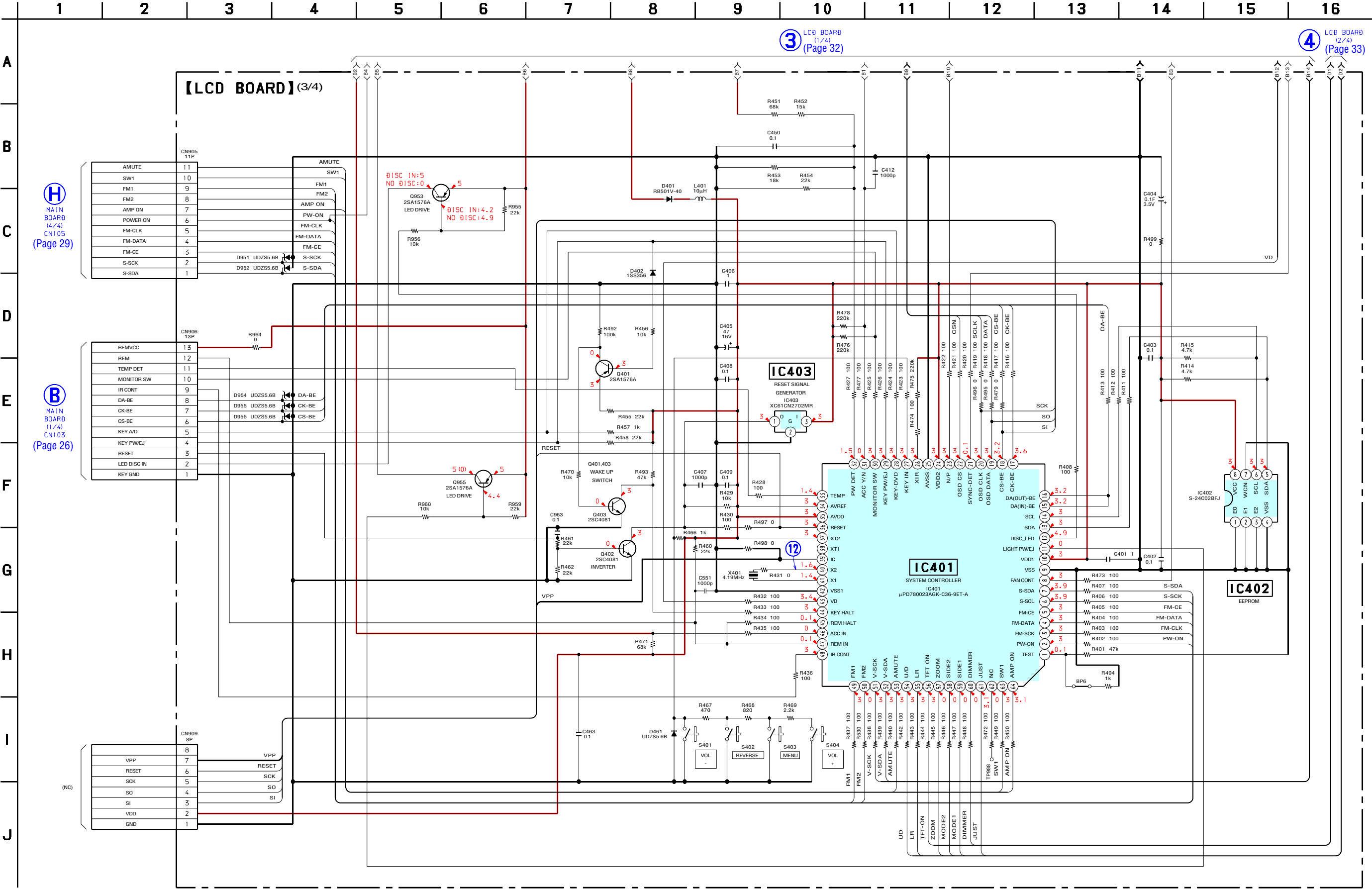
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D401	C-7	D951	E-9	IC801	G-4	Q501	H-12	Q803	H-5	Q855	C-6	Q951	D-6
D461	I-4	D952	E-9	IC802	I-6	Q504	H-13	Q804	H-5	Q856	C-5	Q952	E-7
D501	H-13			IC850	D-5	Q505	I-13	Q805	H-5	Q857	C-3		
D601	G-11	IC402	D-8	IC950	E-6	Q506	I-13	Q806	H-5	Q858	C-2		
D805	G-9	IC405	F-12	IC951	D-7	Q601	G-11	Q807	H-5	Q859	C-6		
D806	G-9	IC501	G-13	IC952	D-7	Q801	G-5	Q853	C-5	Q860	C-4		
D853	D-4	IC602	F-10			Q802	G-6	Q854	C-5	Q861	B-4		

6-13. SCHEMATIC DIAGRAM – LCD Board (1/4) – • See page 39 for Waveforms. • See page 41 for IC Block Diagrams. • See page 47 for IC Pin Function Description.



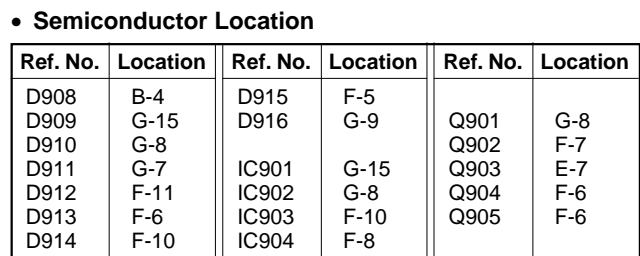


6-15. SCHEMATIC DIAGRAM – LCD Board (3/4) – • See page 39 for Waveform. • See page 47 for IC Pin Function Description.

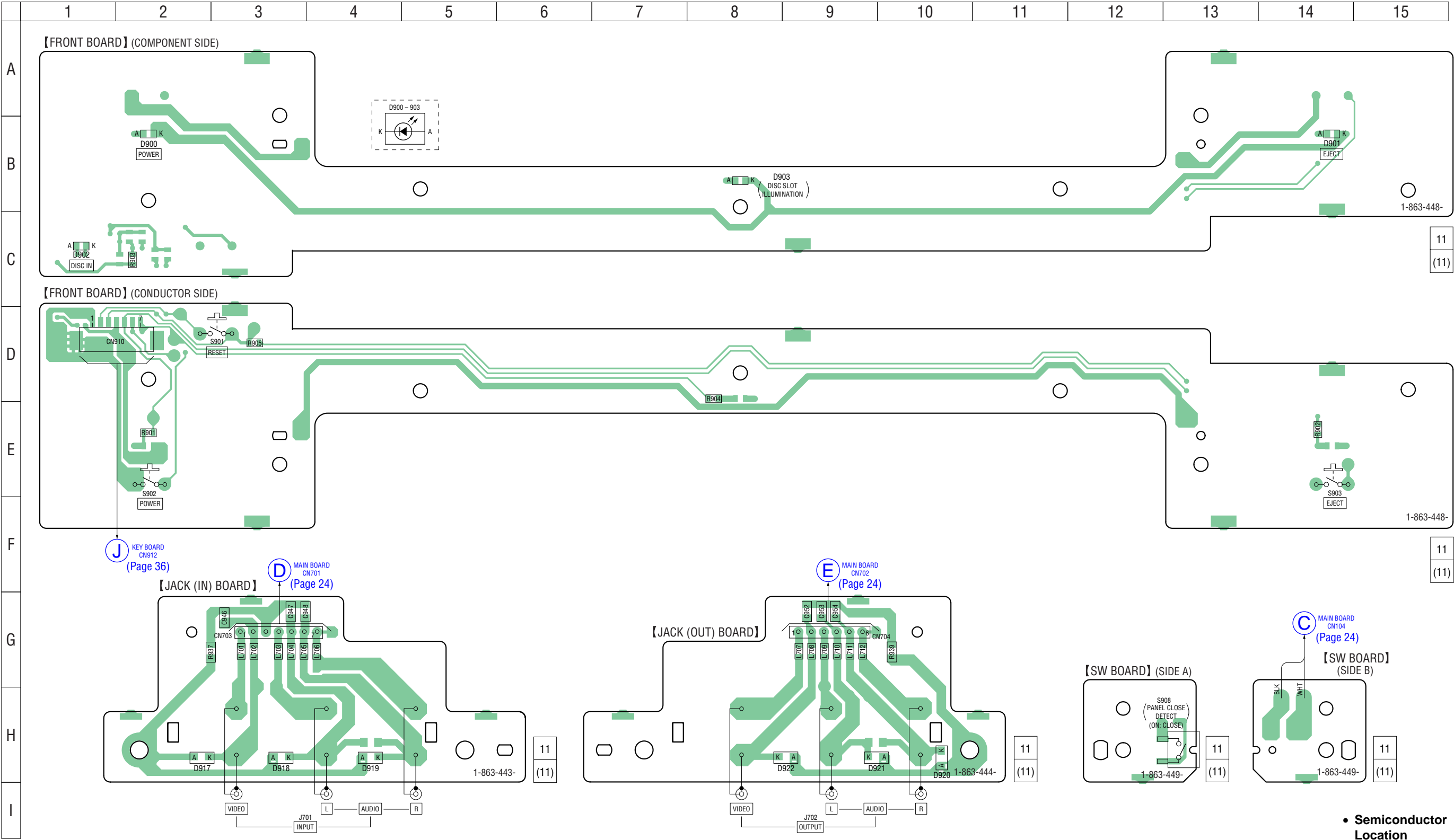


35





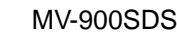
6-18. PRINTED WIRING BOARDS – PANEL Section (2/2) – • See page 23 for Circuit Boards Location.  : Uses unleaded solder.



• Semiconductor Location

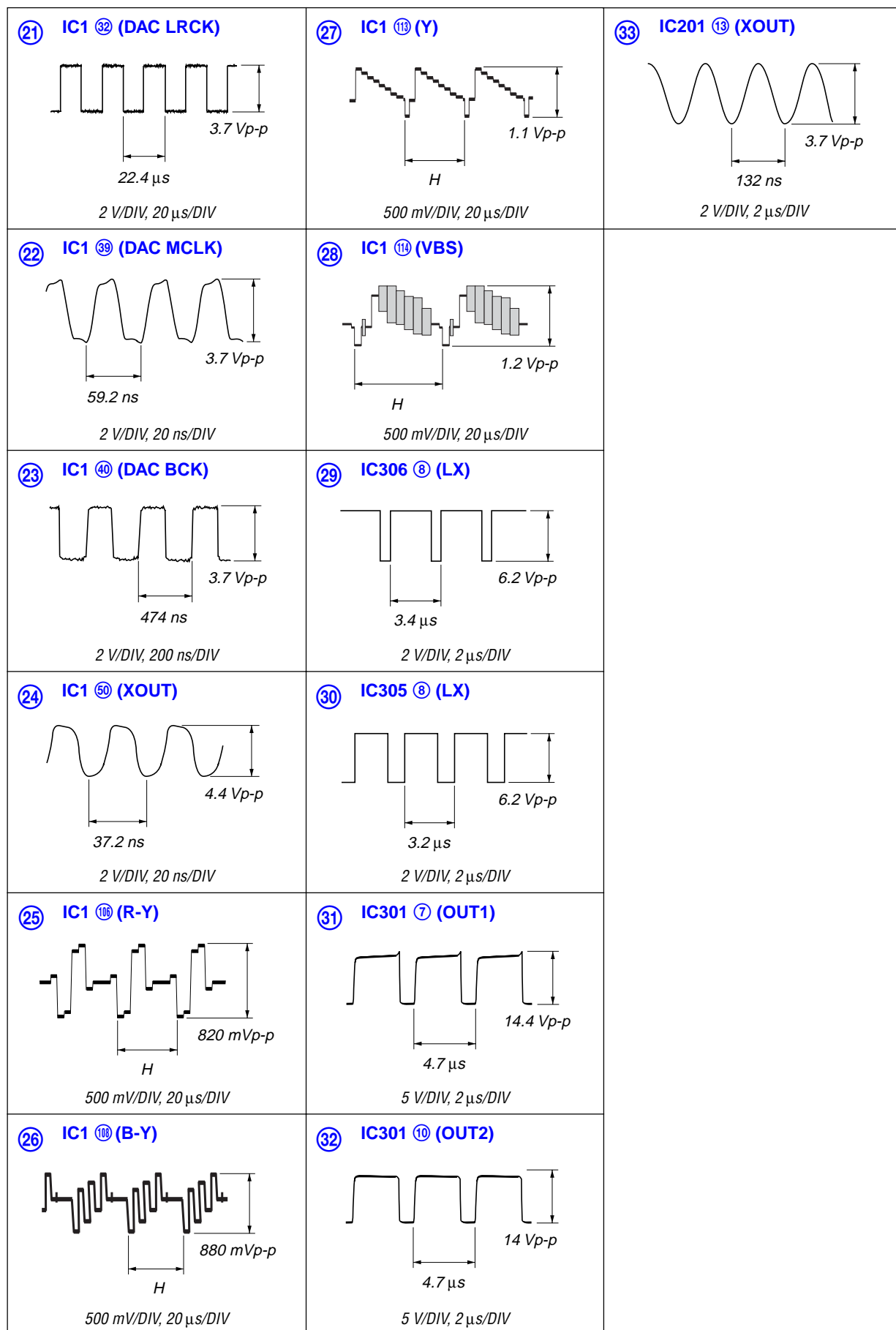
Ref. No.	Location
D900	B-2
D901	B-14
D902	C-1
D903	B-8
D917	H-2
D918	H-3
D919	H-4
D920	H-10
D921	H-9
D922	H-9

- See page 41 for IC Block Diagram.

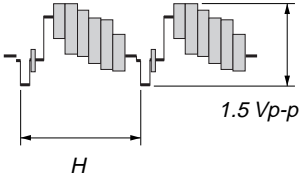

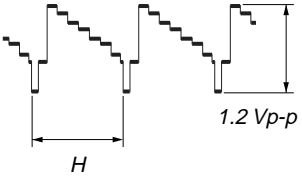
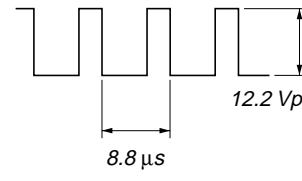
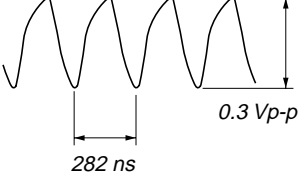
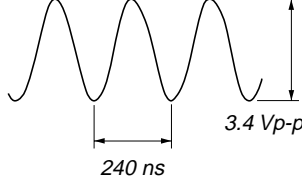
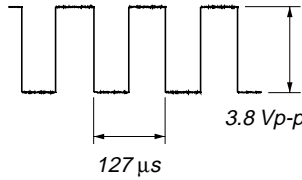
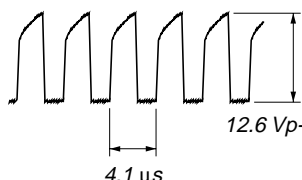
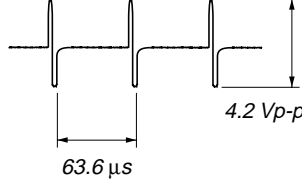
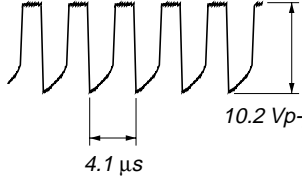
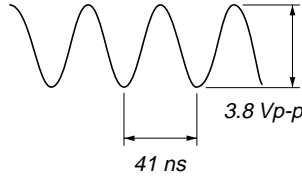


- Waveforms

– MAIN Board –



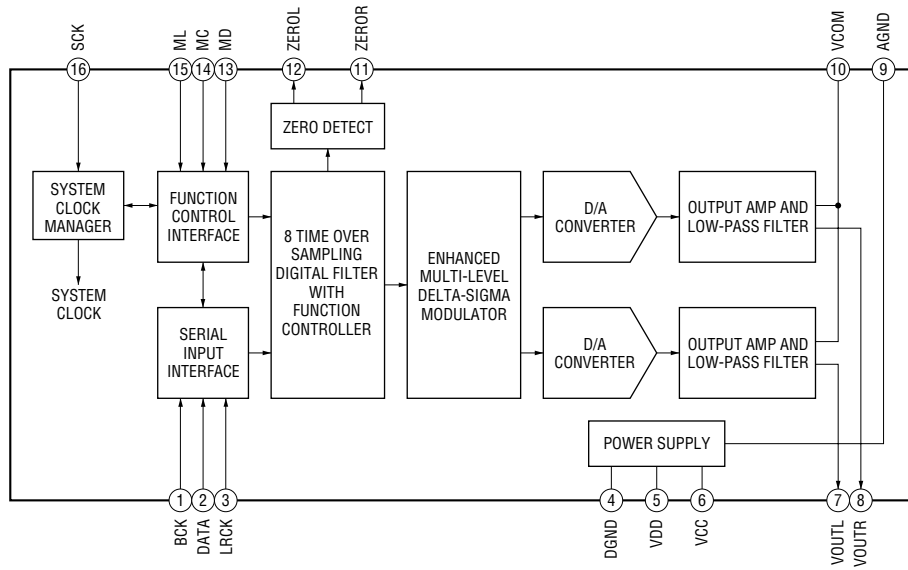
– LCD Board –

<p>① IC501 ⑤② (YIN), ⑤⑦ (CIN) (Color Bars)</p>  <p>1.5 Vp-p</p> <p>H</p> <p>500 mV/DIV, 20 μs/DIV</p>	<p>⑩ Q857, 858 (Collector)</p>  <p>32 Vp-p</p> <p>15.2 μs</p> <p>20 mV/DIV, 10 μs/DIV</p>
<p>② IC501 ⑤④ (CTRAPIN) (Color Bars)</p>  <p>1.2 Vp-p</p> <p>H</p> <p>500 mV/DIV, 20 μs/DIV</p>	<p>⑪ IC850 ⑪ (C2)</p>  <p>12.2 Vp-p</p> <p>8.8 μs</p> <p>5 V/DIV, 5 μs/DIV</p>
<p>③ IC501 ⑥③ (VXO-NTSC)</p>  <p>0.3 Vp-p</p> <p>282 ns</p> <p>100 mV/DIV, 100 ns/DIV</p>	<p>⑫ IC401 ④② (X2)</p>  <p>3.4 Vp-p</p> <p>240 ns</p> <p>2 V/DIV, 100 ns/DIV</p>
<p>⑦ IC601 ⑭ (POL)</p>  <p>3.8 Vp-p</p> <p>127 μs</p> <p>1 V/DIV, 50 μs/DIV</p>	<p>⑬ Q801-2 (Base)</p>  <p>12.6 Vp-p</p> <p>4.1 μs</p> <p>5 V/DIV, 5 μs/DIV</p>
<p>⑧ IC601 ③③ (PD)</p>  <p>4.2 Vp-p</p> <p>63.6 μs</p> <p>2 V/DIV, 20 μs/DIV</p>	<p>⑭ Q801-1 (Base)</p>  <p>10.2 Vp-p</p> <p>4.1 μs</p> <p>5 V/DIV, 5 μs/DIV</p>
<p>⑨ IC601 ③⑥ (VCO1)</p>  <p>3.8 Vp-p</p> <p>41 ns</p> <p>2 V/DIV, 20 ns/DIV</p>	

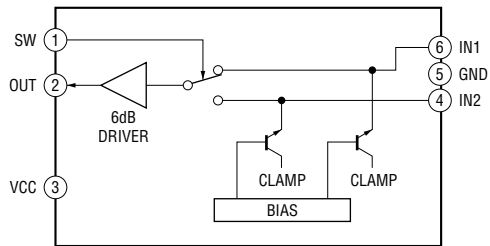
• IC Block Diagrams

– MAIN Board –

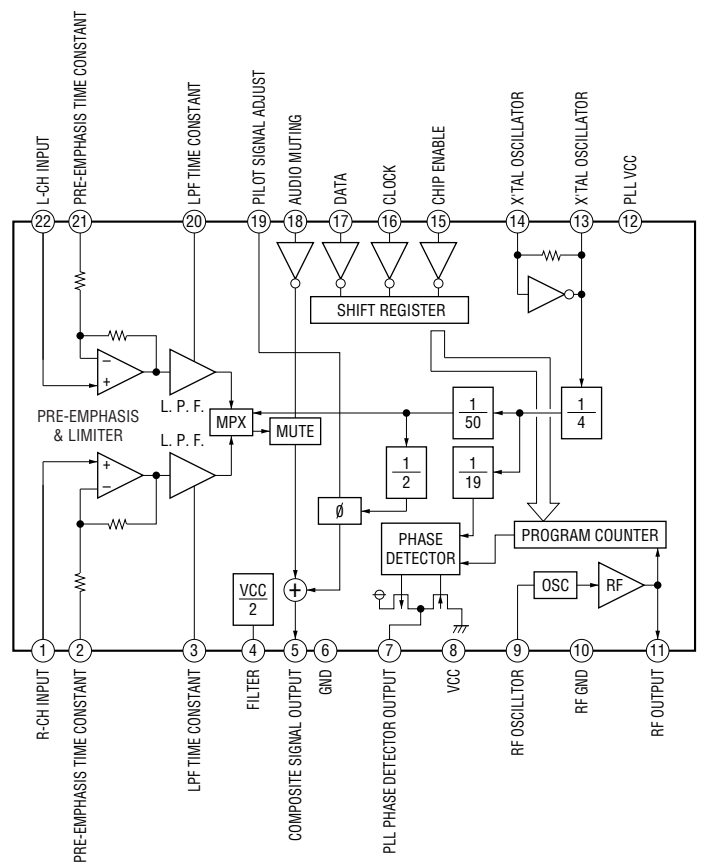
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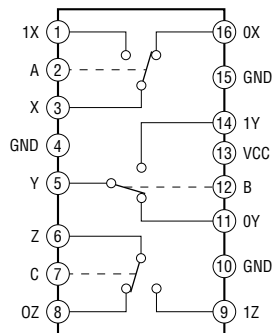
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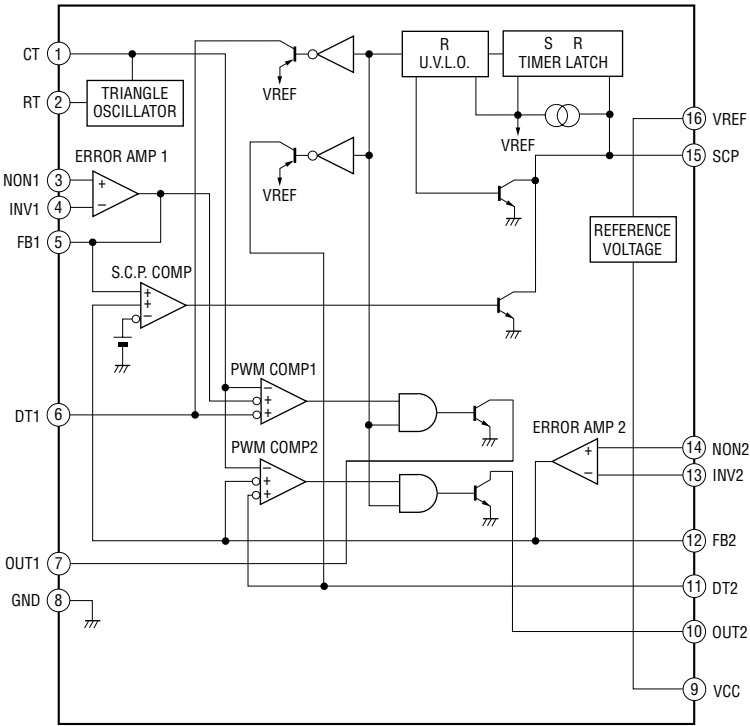
IC201 BH1415F-E2



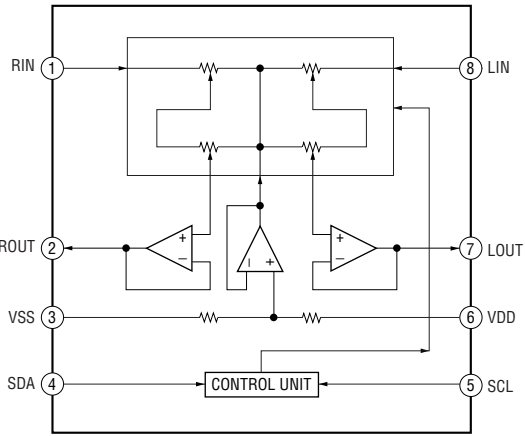
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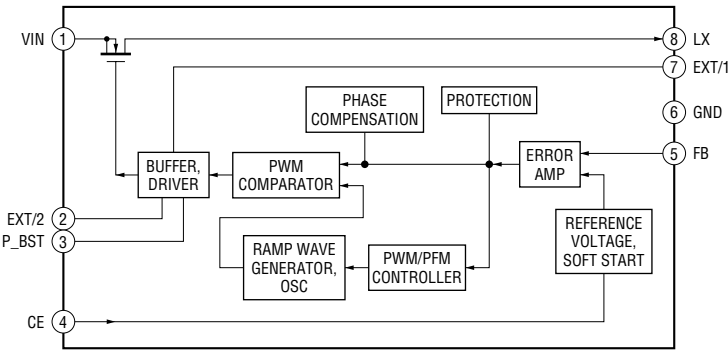
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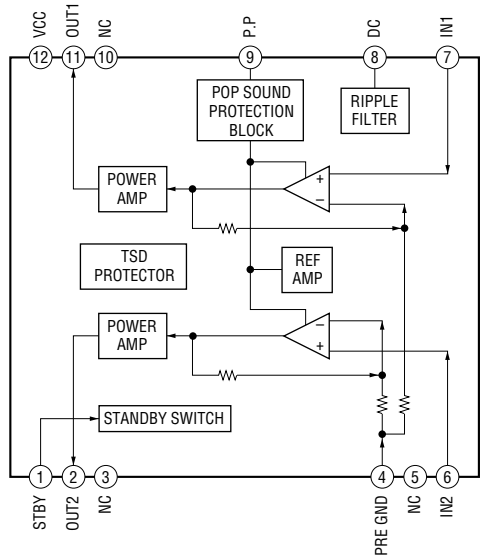
IC706 PT2257-S



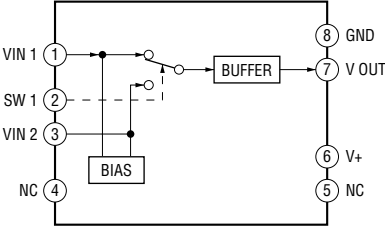
IC305, 306 XC6377B103SR



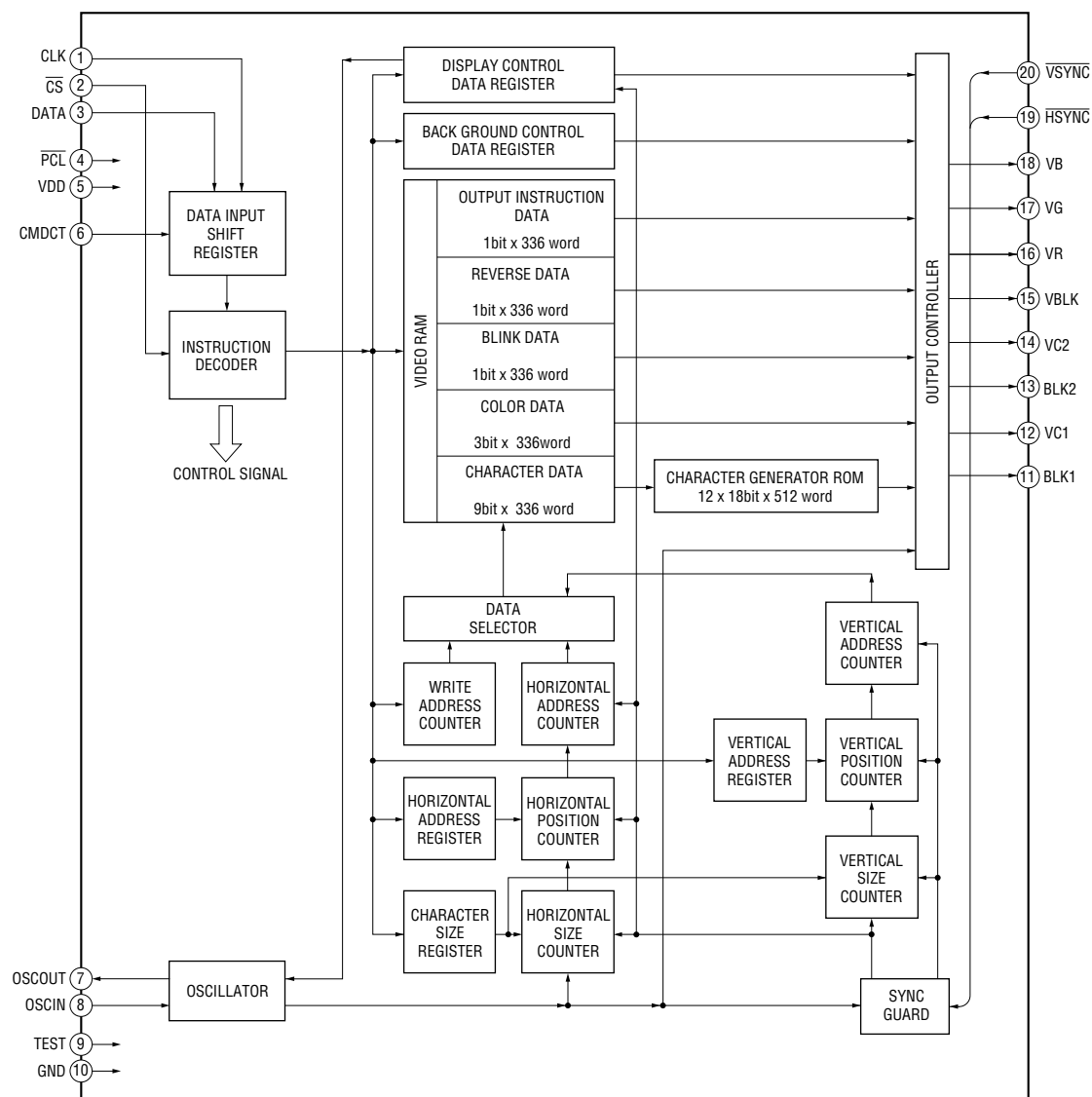
IC707 LA4627-E

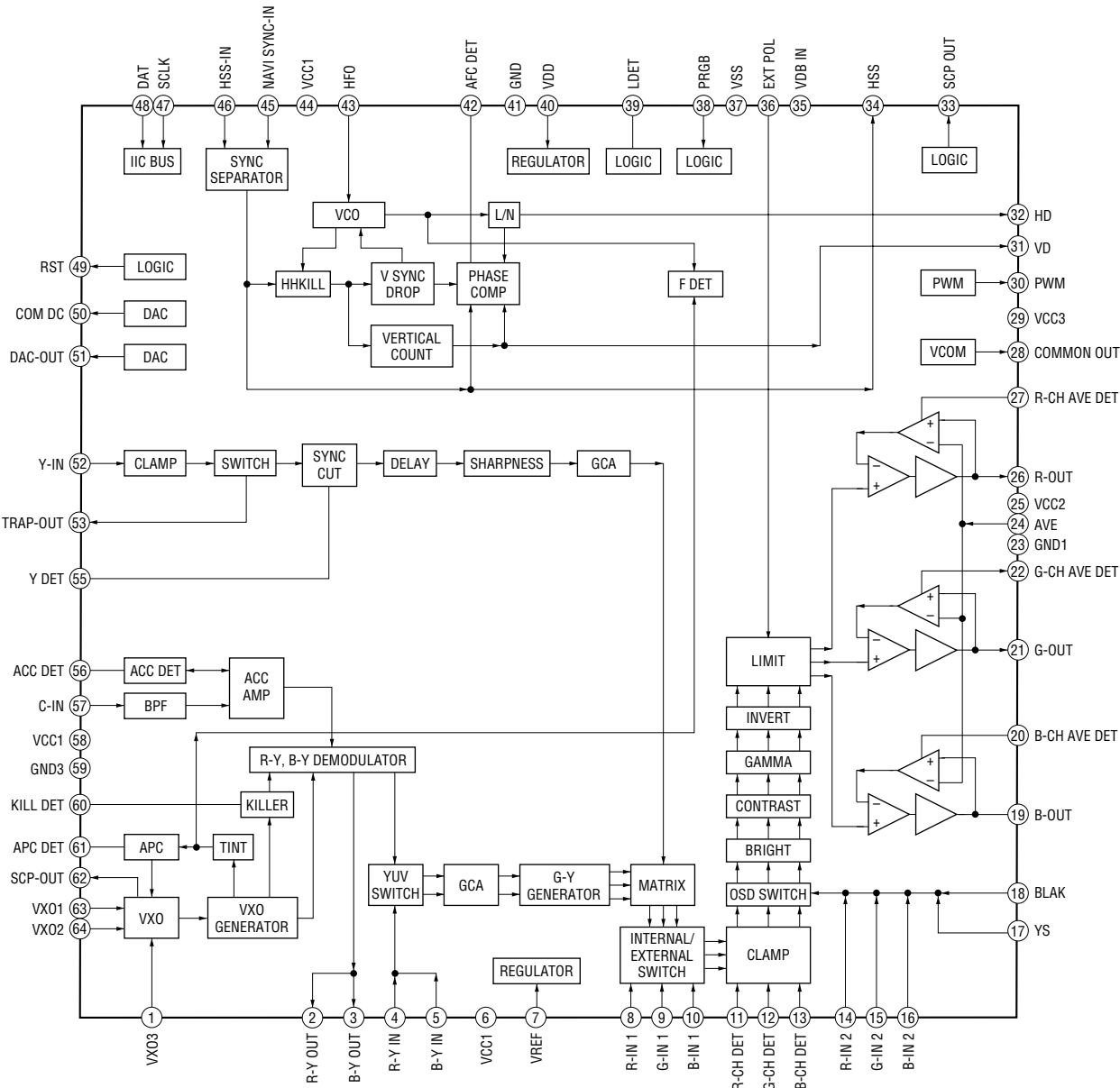


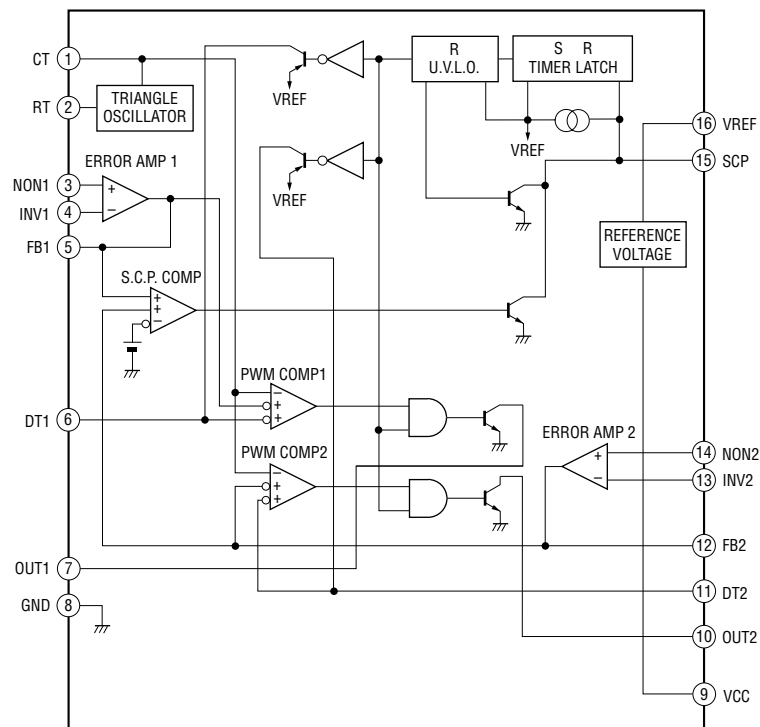
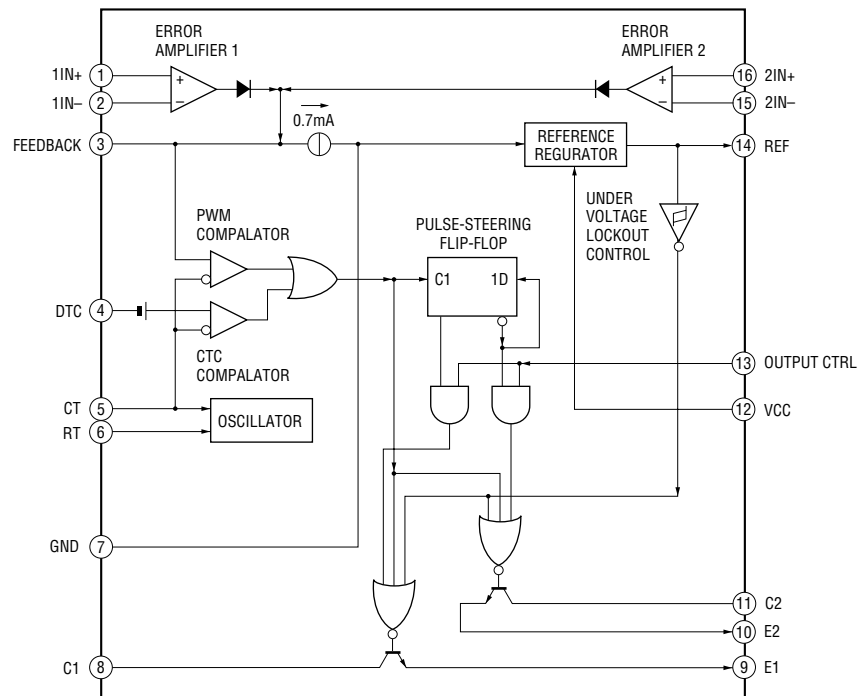
IC704, 705 NJM2233BM



– LCD Board –

IC405 μ PD6467GR-546-E1

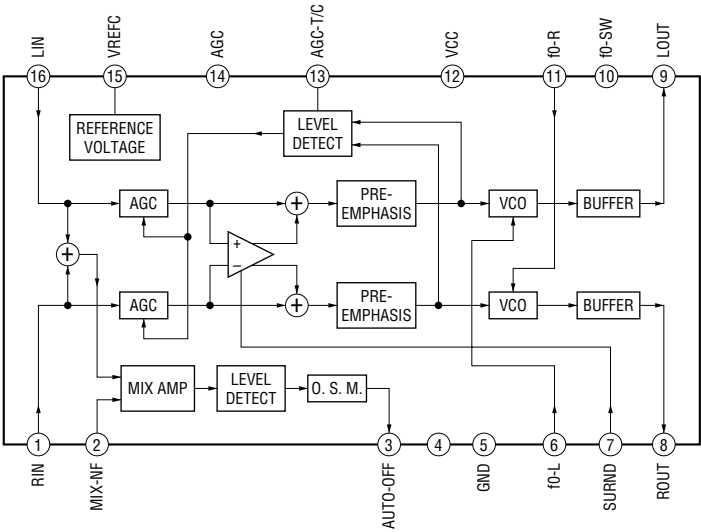


IC801 BA9743AFV-E2**IC850 TL594INSR**

MV-900SDS

– KEY Board –

IC904 TA2061AF-EL



• IC Pin Function Description

MAIN BOARD IC1 ES6008FF (MPEG DECODER)

Pin No.	Pin Name	I/O	Description
1	VEE	—	Power supply terminal (+3.6V)
2 to 7	LA4 to LA9	O	Address signal output to the flash ROM
8	VSS	—	Ground terminal
9	VCC	—	Power supply terminal (+2.8V)
10 to 16	LA10 to LA16	O	Address signal output to the flash ROM
17	VSS	—	Ground terminal
18	VEE	—	Power supply terminal (+3.6V)
19 to 21	LA17 to LA19	O	Address signal output to the flash ROM
22, 23	LA20, LA21	O	Address signal output terminal Not used
24	XRESET	I	System reset signal input from the reset signal generator “L”: reset
25	TDMDX	O	TDM transmit data output terminal Not used
26	VSS	—	Ground terminal
27	VEE	—	Power supply terminal (+3.6V)
28	TDMDR	I	TDM receive data input terminal Not used
29	TDMCLK	I	TDM clock signal input terminal Not used
30	TDMFS	I	TDM frame sync signal input terminal Not used
31	XTDMTSC	O	TDM output enable signal output terminal Not used
32	DAC LRCK	O	L/R sampling clock signal output to the D/A converter
33	DAC DATA	O	Serial data output to the D/A converter
34	VSS	—	Ground terminal
35	VCC	—	Power supply terminal (+2.8V)
36	SEL_PLL1	I	PLL clock frequency setting terminal Not used
37, 38	NC	—	Not used
39	DAC MCLK	O	Master clock signal output to the D/A converter
40	DAC BCK	O	Bit clock signal output to the D/A converter
41	SPDIF	O	Digital audio signal output terminal
42	NC	—	Not used
43	VSS	—	Ground terminal
44	VCC	—	Power supply terminal (+2.8V)
45	RSD	I	Audio receive serial data input terminal Not used
46	RWS	I	Audio receive frame sync input terminal Not used
47	RBCK	I	Audio receive bit clock signal input terminal Not used
48	NC	—	Not used
49	XIN	I	System clock input terminal (27 MHz)
50	XOUT	O	System clock output terminal (27 MHz)
51	AVEE	—	Power supply terminal (+3.6V)
52	AVSS	—	Ground terminal
53 to 58	DMA0 to DMA5	O	Address signal output to the SD-RAM
59	VEE	—	Power supply terminal (+3.6V)
60	VSS	—	Ground terminal
61 to 66	DMA6 to DMA11	O	Address signal output to the SD-RAM
67	VSS	—	Ground terminal
68	VEE	—	Power supply terminal (+3.6V)
69	XDCAS	O	Column address strobe signal output to the SD-RAM
70	DSCK_EN	O	Clock enable signal output to the SD-RAM
71	XDWE	O	Write enable signal output to the SD-RAM

Pin No.	Pin Name	I/O	Description
72	XDRAS	O	Row address strobe signal output to the SD-RAM
73, 74	DBANK0, DBANK1	O	Bank select signal output to the SD-RAM
75	VEE	—	Power supply terminal (+3.6V)
76	VSS	—	Ground terminal
77 to 82	DB0 to DB5	I/O	Two-way data bus with the SD-RAM
83	VCC	S	Power supply terminal (+2.8V)
84	VSS	—	Ground terminal
85 to 90	DB6 to DB11	I/O	Two-way data bus with the SD-RAM
91	VSS	—	Ground terminal
92	VEE	—	Power supply terminal (+3.6V)
93 to 96	DB12 to DB15	I/O	Two-way data bus with the SD-RAM
97	XDCS1	O	Chip select signal output terminal
98	VSS	—	Ground terminal
99	VEE	—	Power supply terminal (+3.6V)
100	XDCS0	O	Chip select signal output to the SD-RAM
101	DQM	O	Mask signal output terminal for data output to the SD-RAM
102	DSCK	O	Serial data transfer clock signal output to the SD-RAM
103	VSS	—	Ground terminal
104	VEE	—	Power supply terminal (+3.6V)
105	DCLK	I	Serial data transfer clock signal input terminal Not used
106	R-Y	O	Video signal (R-Y) output terminal
107	VREF C	I	Capacitor connection terminal for internal reference voltage
108	B-Y	O	Video signal (B-Y) output terminal
109	COMP	I	Compensation input terminal
110	RSET	I	DAC current adjustment resistor input terminal Not used
111	ADVEE	—	Power supply terminal (+3.6V)
112	ADVSS	—	Ground terminal
113	Y	O	Video signal (Y) output terminal
114	VBS	O	Video signal output terminal
115	YUV7	O	YUV7 pixel output data Not used
116	PCLK2XSCN	O	27 MHz video output pixel clock Not used
117	MS SCLK	O	Serial data transfer clock signal output for a memory stick
118	DAC MD	O	Mode control signal output to the D/A converter
119	MS INS	I	Memory stick in/out detection signal input terminal “L”: memory stick is inserted
120	VSS	—	Ground terminal
121	VCC	—	Power supply terminal (+2.8V)
122 to 128	HD0 to HD6	I/O	Two-way data bus with the DVD mechanism deck block
129	VSS	—	Ground terminal
130	VEE	—	Power supply terminal (+3.6V)
131 to 137	HD7 to HD13	I/O	Two-way data bus with the DVD mechanism deck block
138	VSS	—	Ground terminal
139	VCC	—	Power supply terminal (+2.8V)
140, 141	HD14, HD15	I/O	Two-way data bus with the DVD mechanism deck block
142	MS SDIO	I/O	Two-way data bus for a memory stick
143	MC	O	Mode control clock signal output to the D/A converter

Pin No.	Pin Name	I/O	Description
144	HIRQ	I	Interrupt request signal input from the DVD mechanism deck block
145	XHRST	O	Reset signal output to the DVD mechanism deck block
146	HIORDY	I	Ready signal input from the DVD mechanism deck block
147	VSS	—	Ground terminal
148	VEE	—	Power supply terminal (+3.6V)
149	XHWR	O	Write strobe signal output terminal with the DVD mechanism deck block
150	XHRD	O	Data read enable signal output to the DVD mechanism deck block
151	XHIOCS16	I	Chip select signal for the device 16-bit data input to the DVD mechanism deck block
152	XHCS1FX	O	Chip select signal output to the DVD mechanism deck block
153	HCS3FX	O	Chip select signal output to the DVD mechanism deck block
154, 155	HA0, HA1	O	Address signal output to the DVD mechanism deck block
156	VSS	—	Ground terminal
157	VEE	—	Power supply terminal (+3.6V)
158	HA2	O	Address signal output to the DVD mechanism deck block
159	VEE	—	Power supply terminal (+3.6V)
160	SDA	I/O	Serial data input/output terminal with the EEPROM
161	SCL	O	Serial data transfer clock signal output to the EEPROM
162	DA-BE	I/O	Serial data input/output terminal with the system controller
163	VSS	—	Ground terminal
164	VEE	—	Power supply terminal (+3.6V)
165	DAC ML	O	Mode control latch signal output to the D/A converter
166	ENDSW	I	End switch input from the DVD mechanism deck block
167	MS BS	O	Bus state signal output for a memory stick
168	CS-BE	I	Chip select signal input from the system controller
169	CK-BE	I	Serial data transfer clock signal input from the system controller
170	XLOE	O	Output enable signal output to the flash ROM
171	VSS	—	Ground terminal
172	VCC	—	Power supply terminal (+2.8V)
173 to 175	XLCS0 to XLCS2	O	Chip select signal output terminal Not used
176	XLCS3	O	Chip select signal output to the flash ROM
177	VSS	—	Ground terminal
178 to 182	LD0 to LD4	I/O	Two-way data bus with the flash ROM
183	VEE	—	Power supply terminal (+3.6V)
184	VSS	—	Ground terminal
185 to 191	LD5 to LD11	I/O	Two-way data bus with the flash ROM
192	VSS	—	Ground terminal
193	VEE	—	Power supply terminal (+3.6V)
194 to 196	LD12 to LD15	I/O	Two-way data bus with the flash ROM
197	LD15	I/O	Two-way data bus terminal Not used
198	XLWRL	O	Lower byte data write enable signal output to the flash ROM
199	XLWRHL	O	Upper byte data write enable signal output terminal Not used
200	VSS	—	Ground terminal
201	VEE	—	Power supply terminal (+3.6V)
202	CAMIN0	I	Camera YUV 0 input terminal Not used
203	CAMIN1	I	Camera YUV 1 input terminal Not used
204 to 207	LA0 to LA3	O	Address signal output to the flash ROM
208	VSS	—	Ground terminal

LCD BOARD IC401 μ PD780023AGK-C36-9ET-A (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	TEST	I	Test mode setting terminal “H”: test mode, normally fixed at “L”
2	PW-ON	O	Power on/off control signal output for main power “H”: power on
3	FM-SCK	O	Serial data transfer clock signal output to the FM modulator
4	FM-DATA	O	Serial data output to the FM modulator
5	FM-CE	O	Chip enable signal output to the FM modulator
6	S-SCL	O	Serial data transfer clock signal output to the electrical volume
7	S-SDA	O	Serial data output to the electrical volume
8	FAN CONT	O	Fan motor drive signal output terminal “H”: fan on
9	VSS	—	Ground terminal
10	VDD1	—	Power supply terminal (+3.3V)
11	LIGHT PW/EJ	O	LED drive signal output for POWER and EJECT key illumination “L”: LED on
12	DISC_LED	O	LED drive signal output for DISC IN indicator “L”: LED on
13	SDA	I/O	Two-way data bus with the EEPROM
14	SCL	O	Serial data transfer clock signal output to the EEPROM
15	DA (IN)-BE	I	Serial data input from the DVD mechanism deck block
16	DA (OUT)-BE	O	Serial data output to the DVD mechanism deck block
17	CK-BE	O	Serial data transfer clock signal output to the DVD mechanism deck block
18	CS-BE	O	Chip select signal output to the DVD mechanism deck block
19	OSD DATA	O	Serial data output to the OSD driver
20	OSD CLK	O	Serial data transfer clock signal output to the OSD driver
21	SYNC-DET	I	Sync detection signal input from the RGB decoder “L”: reflection is detect, “H”: reflection is not detect
22	OSD CS	O	Chip select signal output to the OSD driver
23	N/P	O	NTSC/PAL selection signal output terminal “L”: PAL, “H”: NTSC
24	VDD2	—	Power supply terminal (+3.3V)
25	AVSS	—	Ground terminal (for A/D converter)
26	XIR	—	Not used
27	KEY IN	I	Front panel key input terminal (A/D input)
28	KEY-DVD	I	Monitor panel key input terminal (A/D input)
29	KEY PW/EJ	I	Front panel key input terminal
30	MONITOR SW	I	Panel close detection switch input terminal “L”: close
31	ACC Y/N	I	Power select switch input terminal “H”: A position (use accessory position)
32	PW DET	I	Over voltage (more than 1.8V) and low voltage (less than 1.0V) detect terminal
33	TEMP	I	Temperature detection signal input terminal
34	AVREF	I	Reference voltage (+3.3V) input terminal (for A/D converter)
35	AVDD	—	Power supply terminal (+3.3V) (for A/D converter)
36	RESET	I	System reset signal input from the reset signal generator or reset switch “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
37	XT2	O	System clock output terminal Not used
38	XT1	I	System clock input terminal Not used
39	IC	I	Connected to the ground
40	X2	O	System clock output terminal (4.19 MHz)
41	X1	I	System clock input terminal (4.19 MHz)
42	VSS1	—	Ground terminal
43	VD	I	Vertical sync signal input from the RGB decoder

Pin No.	Pin Name	I/O	Description
44	KEY HALT	I	Wake up signal input from the POWER and eject key
45	REM HALT	I	Wake up signal input from the remote commander
46	ACC IN	I	Accessory detection signal input terminal "L": accessory on
47	REM IN	I	Remote control signal input terminal
48	IR CONT	O	Power on/off control signal output for the IR transceiver LED
49, 50	FM1, FM2	O	FM modulator level switching signal output terminal pin 49 is "L"/pin 50 is "L" : FM modulator off pin 49 is "H"/pin 50 is "H" : low output level pin 49 is "H"/pin 50 is "L" : middle output level pin 49 is "L"/pin 50 is "H" : high output level
51	V-SCK	O	Serial data transfer clock signal output to the RGB decoder
52	V-SDA	O	Serial data output to the RGB decoder
53	AMUTE	O	Audio muting on/off control signal output terminal "L": muting on
54	UD	O	Above and below scan direction selection signal output to the LCD controller "L": all inversion, normally "H" L-ch/R-ch inversion signal output terminal "L": inversion, normally "H"
55	LR	O	Left and right scan direction selection signal output to the LCD controller "L": all inversion, normally "H"
56	TFT ON	O	Power on/off control signal output for LCD back light unit "H": power on
57	ZOOM	O	Screen size selection signal output to the LCD controller "H": zoom screen
58, 59	SIDE2, SIDE1	O	Screen size selection signal output to the LCD controller
60	DIMMER	O	Dimmer on/off control signal output terminal for LCD back light unit "H": dimmer on
61	JUST	O	Screen size selection signal output to the LCD controller "H": wide screen
62	NC	—	Not used
63	SW1	O	Input signal selection signal output terminal "L": DVD, "H": AUX video
64	AMP ON	O	Power amplifier on/off control signal output terminal "H": amplifire on

LCD BOARD IC405 μ PD6467GR-546-E1 (OSD DRIVER)

Pin No.	Pin Name	I/O	Description
1	SCLK	I	Serial data transfer clock signal input from the system controller
2	CSN	I	Chip select signal input from the system controller
3	DATA	I	Serial data input from the system controller
4	PCL	I	Clear signal input after the power supply rises
5	VDD	—	Power supply terminal (+3.3V)
6	CMDCT	I	Command LSB/MSB first input selection signal input terminal “L”: LSB first, “H”: MSB first Fixed at “H” in this set
7	OSC OUT	O	Output terminal from the clock generator circuit
8	OSC IN	I	Input terminal from the clock generator circuit
9	TEST	I	Test mode setting terminal “H”: test mode, normally fixed at “L”
10	GND	—	Ground terminal
11	BLK1	O	Blanking signal output terminal Not used
12	VC1	O	Character signal output terminal Not used
13	BLK2	O	Blanking signal output terminal Not used
14	VC2	O	Character signal output terminal Not used
15	BLK	O	Blanking signal output to the RGB decoder
16 to 18	VR, VG, VB	O	Character signal output to the RGB decoder
19	VSYN CN	I	Vertical sync signal input from the RGB decoder
20	HSYN CN	I	Horizontal sync signal input from the RGB decoder

LCD BOARD IC601 MN5814 (LCD CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	SYNCIN	I	Composite sync signal input terminal Not used
2	HSYNCIN	I	Horizontal sync signal input from the RGB decoder
3, 4	CPHSEL(SIDE2), QHSEL(SIDE1)	I	Screen size selection signal input from the system controller
5	VDBIN	I	Vertical sync signal input from the RGB decoder
6	HOUT	O	Horizontal sync signal output terminal Not used
7	VOUT	O	Vertical sync signal output terminal Not used
8	BLACK	O	Black signal output to the RGB decoder
9 to 11	VPOS3 to VPOS1	I	Vertical display position selection signal input terminal
12	LTBOX (ZOOM)	I	Screen size selection signal input from the system controller “H”: zoom screen
13	UD	I	Above and below scan direction selection signal input from the system controller “L”: all inversion, normally “H”
14	POL	O	Polarity inversion signal of reflection and opposite output to the RGB decoder
15	INTEXT	I	Composite/separate sync selection signal input terminal
16	CPV	O	Gate driver clock signal output to the liquid crystal display module
17 to 19	OEVS3 to OEVS1	O	Gate driver output enable pulse signal output to the liquid crystal display module
20	STV1	O	Gate driver start pulse signal output to the liquid crystal display module
21	OEHS	O	Source driver output enable pulse signal output to the liquid crystal display module
22	QH (ZOOMC)	O	Screen size selection signal output terminal Not used
23, 24	STH1, STH2	O	Source driver start pulse signal output to the liquid crystal display module
25	CPH3	O	Source driver clock signal output to the liquid crystal display module
26	STV2	O	Gate driver start pulse signal output to the liquid crystal display module
27	CPH2	O	Source driver clock signal output to the liquid crystal display module
28	L/R	I	Left and right scan direction selection signal input from the system controller “L”: all inversion, normally “H”
29	CPH1	O	Source driver clock signal output to the liquid crystal display module
30	HDOT2	I	Mode selection signal input for number of display pixel
31	JUST	I	Screen size selection signal input from the system controller “H”: wide screen
32	POSSET	I	Horizontal display position and vertical display position offset selection signal input terminal
33	PD	O	Phase comparison output terminal
34	QVDZMSEL	I	Screen size selection signal input terminal
35	VDD	—	Power supply terminal (+3.3V)
36	VCO1	I	VCO signal and system clock signal input terminal
37	VCO0	O	System clock signal output terminal
38	VSS	—	Ground terminal
39	RST	I	System reset signal input terminal
40	HDOT1	I	Mode selection signal input for number of display pixel
41	WH (UONS)	I	Screen size selection signal input terminal
42 to 45	HPOS4 to HPOS1	I	Horizontal display position selection signal input terminal
46	NP1	I	NTSC/PAL selection signal input terminal “L”: NTSC, “H”: PAL
47	VDD	—	Power supply terminal (+3.3V)
48	VSS	—	Ground terminal

SECTION 7

EXPLODED VIEWS

NOTE:

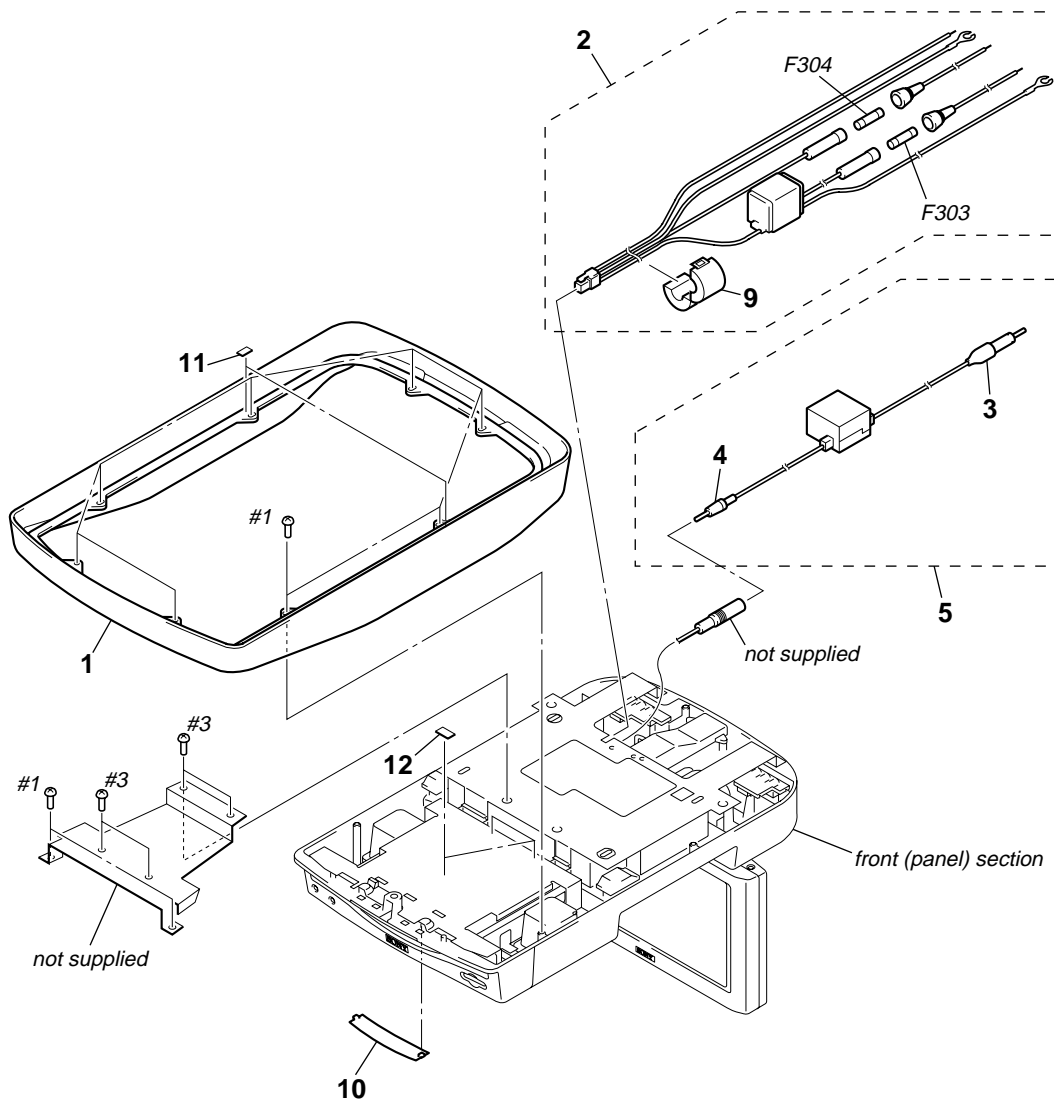
- XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)

Parts Color

Cabinet's Color

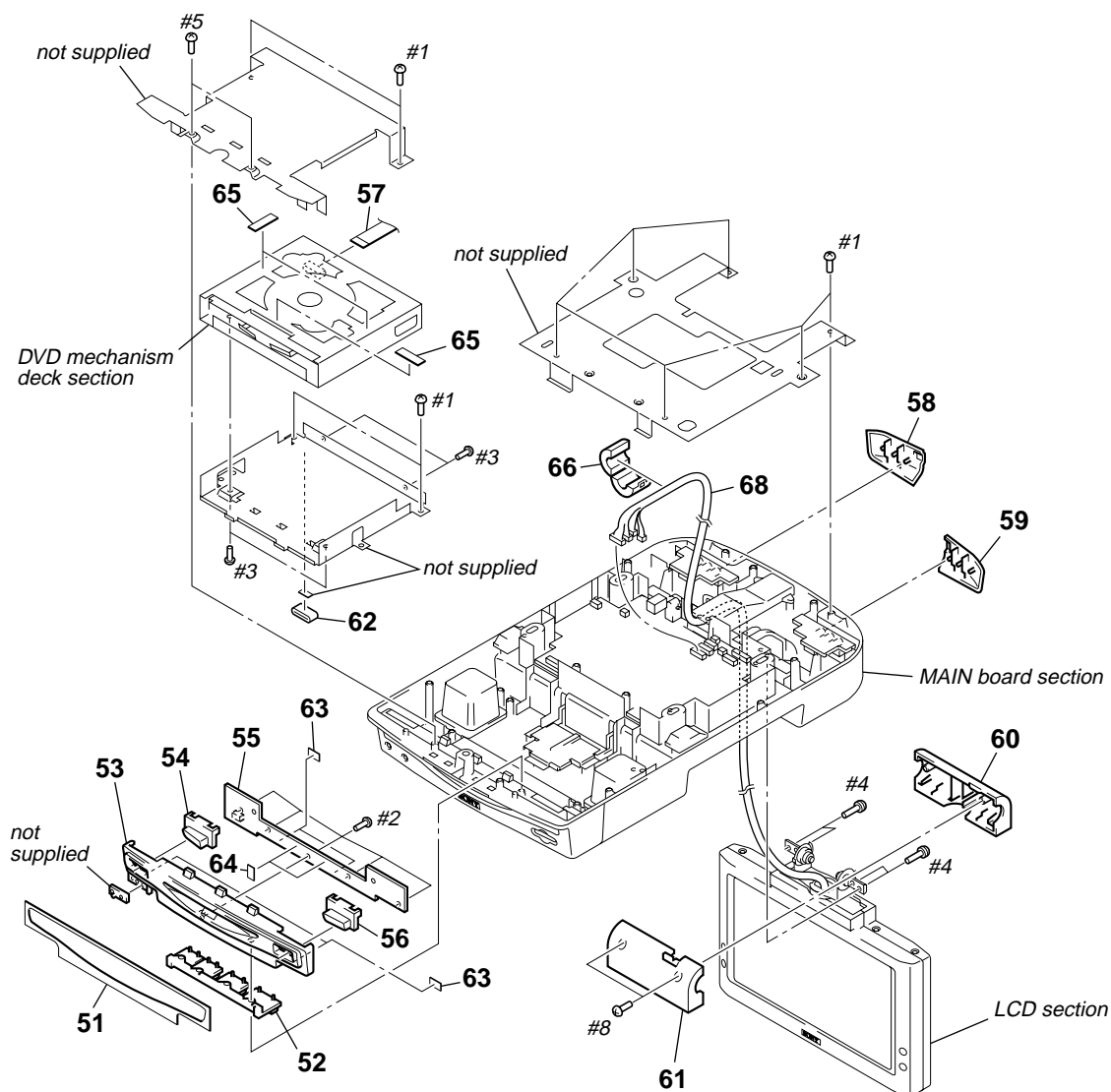
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

7-1. SKIRT (CABINET) SECTION



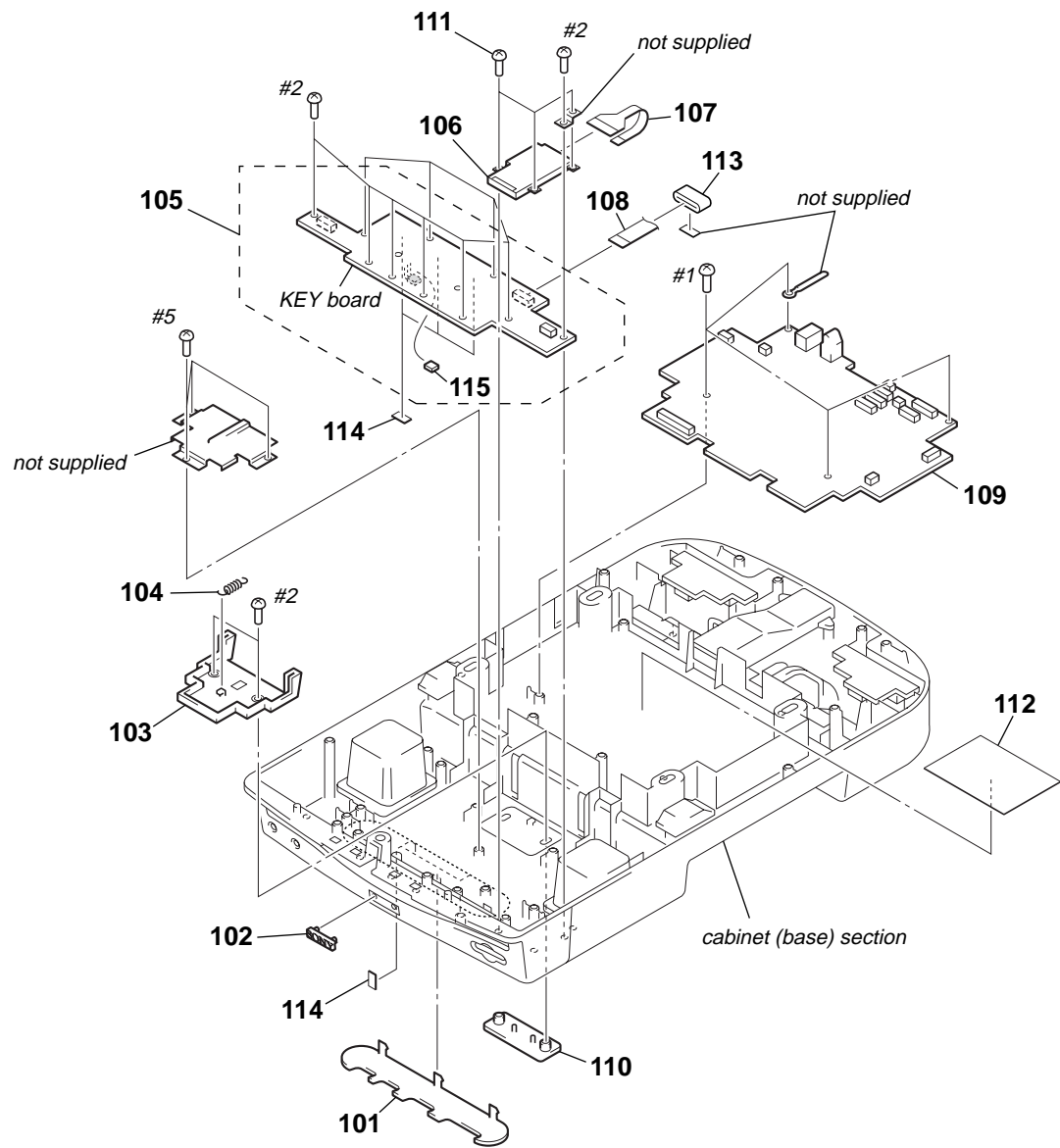
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-267-475-01	SKIRT (CABINET)		10	3-267-637-01	COVER (SCREW)	
2	1-829-384-12	CORD, CONNECTION (POWER)		11	2-178-625-01	CUSHION (INDICATOR)	
3	1-963-068-11	CORD (WITH CONNECTOR) (ANT-OUT)		12	2-178-624-01	SHEET (BUTTON)	
		(for RELAY BOX ASSY)		F303	1-533-453-11	FUSE (GLASS TUBE) (5A/125V)	
4	1-963-067-11	CORD (WITH CONNECTOR) (CD-OUT)					
		(for RELAY BOX ASSY)		F304	1-533-465-11	FUSE (GLASS TUBE) (1A/250V)	
5	A-1065-952-A	BOX ASSY, RELAY		#1	7-685-534-14	SCREW +BTP 2.6X8 TYPE2 N-S	
				#3	7-621-773-86	SCREW +B 2.6X4	
9	1-469-778-11	CLAMP, FERRITE					

7-2. FRONT (PANEL) SECTION



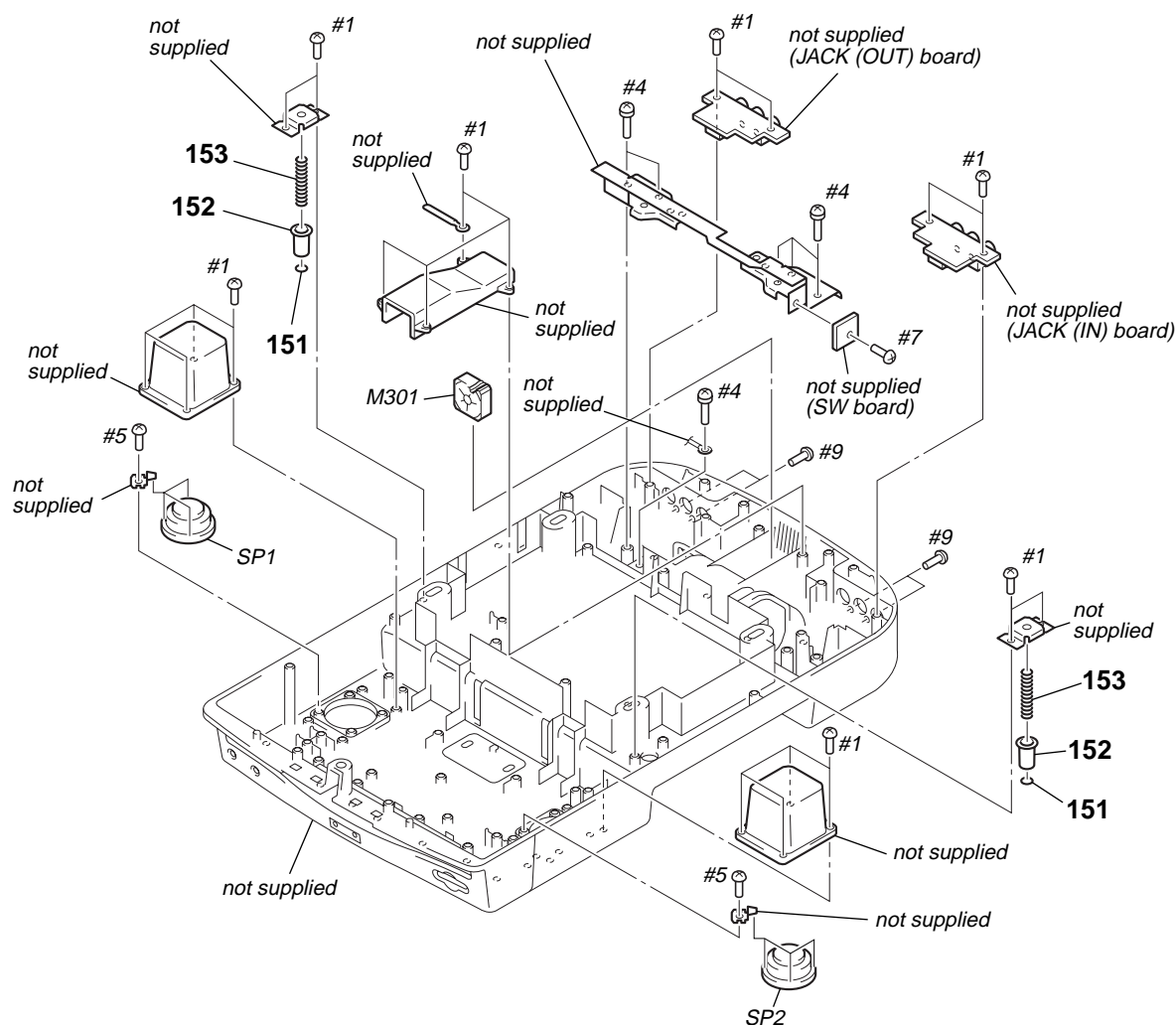
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	2-059-490-01	SHEET (FRONT), ADHESIVE		63	2-178-624-01	SHEET (BUTTON)	
52	3-267-457-01	BUTTON (MAIN) (◀◀, ▶▶, ■, ▶▶)		64	2-178-625-01	CUSHION (INDICATOR)	
53	X-3385-231-1	PANEL (FRONT) SUB ASSY		65	2-178-450-01	CUSHION (MECHANICAL)	
54	3-267-455-01	BUTTON (POWER)		66	1-500-459-11	FILTER, CLAMP (FERRITE CORE)	
55	A-1063-052-A	FRONT BOARD, COMPLETE		68	1-965-038-11	CORD ASSY, CONNECTOR WITH	
56	3-267-456-01	BUTTON (EJECT)		#1	7-685-534-14	SCREW +BTP 2.6X8 TYPE2 N-S	
57	1-863-496-12	CABLE, FLEXIBLE FLAT (50 CORE)		#2	7-685-504-19	SCREW +BTP 2X6 TYPE2 N-S	
58	3-267-636-01	COVER (R) (JACK)		#3	7-621-773-86	SCREW +B 2.6X4	
59	3-267-635-01	COVER (L) (JACK)		#4	7-682-649-09	SCREW +PS 3X10	
60	3-267-449-01	COVER (HINGE), REAR		#5	7-685-533-14	SCREW +BTP 2.6X6 TYPE2 N-S	
61	3-267-448-01	COVER (HINGE), FRONT		#8	7-685-105-19	SCREW +P 2X8 TYPE2 NON-SLIT	
* 62	1-500-544-11	BEAD, FERRITE					

7-3. MAIN BOARD SECTION



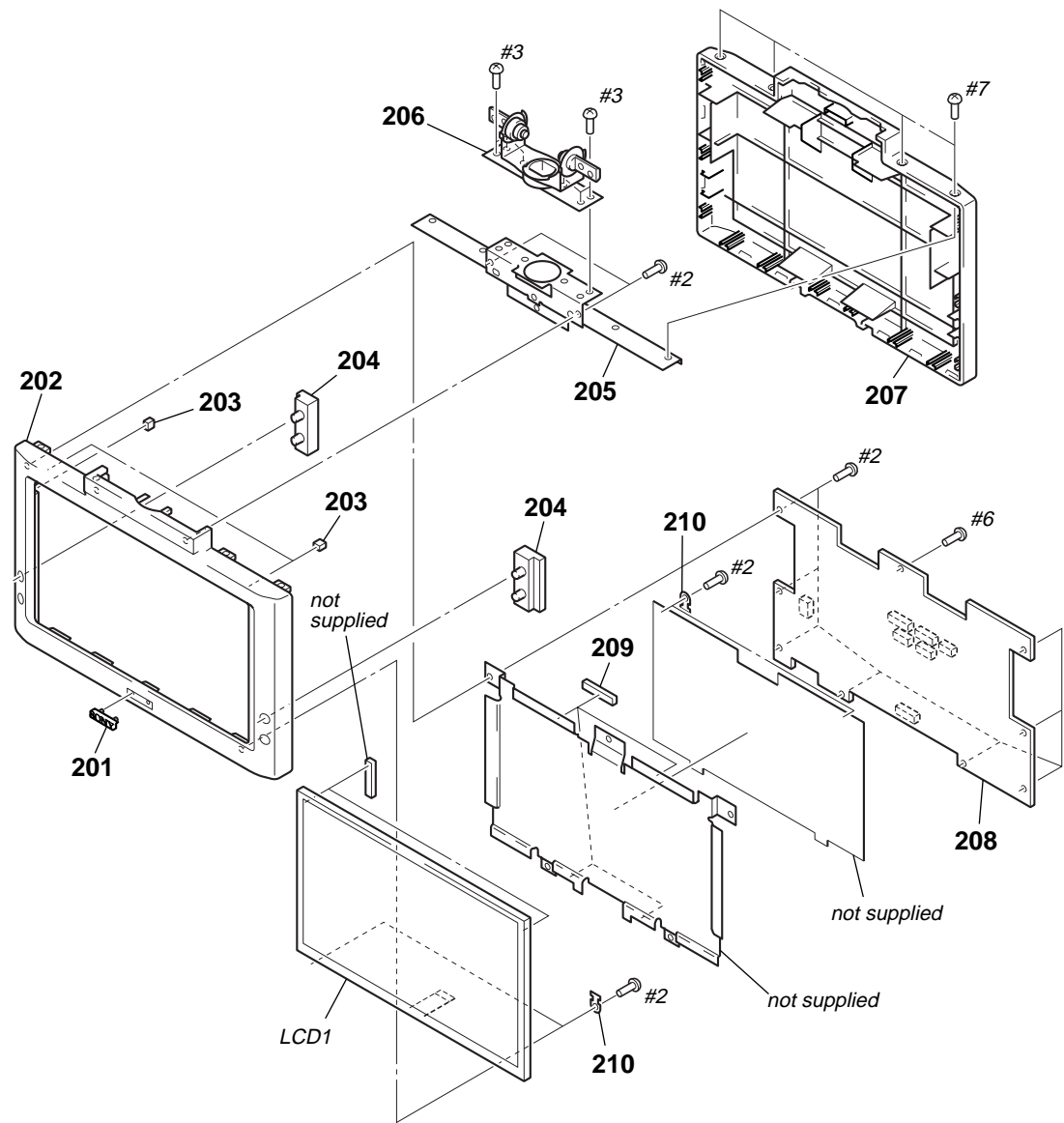
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-267-464-02	WINDOW (IR)		110	3-267-459-01	KNOB (OPEN)	
102	4-942-567-01	EMBLEM (NO.4), SONY		111	3-318-203-01	SCREW (B1.7X6), TAPPING	
103	3-267-460-01	SLIDER (KNOB)		112	2-159-617-01	SHEET (MAIN) INSULATING	
104	3-267-471-01	SPRING (OPEN), TENSION COIL		113	1-500-657-11	CORE, FERRITE	
105	A-3283-761-A	KEY BOARD, COMPLETE		114	2-178-624-01	SHEET (BUTTON)	
106	1-817-116-21	CONNECTOR, MEMORY STICK		115	3-254-887-01	CUSHION (REMOTE)	
107	1-863-494-12	PWB, FLEXIBLE (MS)		#1	7-685-534-14	SCREW +BTP 2.6X8 TYPE2 N-S	
108	1-863-495-12	CABLE, FLEXIBLE FLAT (30 CORE)		#2	7-685-504-19	SCREW +BTP 2X6 TYPE2 N-S	
109	A-3283-763-A	MAIN BOARD, COMPLETE		#5	7-685-533-14	SCREW +BTP 2.6X6 TYPE2 N-S	

7-4. CABINET (BASE) SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	3-254-851-01	CUSHION (LIFT)		#1	7-685-534-14	SCREW +BTP 2.6X8 TYPE2 N-S	
152	3-254-857-01	LIFT (OPEN)		#4	7-682-649-09	SCREW +PS 3X10	
153	3-267-472-01	SPRING (LIFT), COMPRESSION		#5	7-685-533-14	SCREW +BTP 2.6X6 TYPE2 N-S	
M301	1-763-815-21	FAN, DC (25X25)		#7	7-621-771-06	SCREW +B 2X5	
SP1	1-825-836-11	SPEAKER (3.3 cm) (L-ch)		#9	7-685-546-14	SCREW +BTP 3X8 TYPE2 N-S	
SP2	1-825-836-11	SPEAKER (3.3 cm) (R-ch)					

7-5. LCD SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	4-942-636-01	EMBLEM (NO.3.5), SONY		209	3-267-444-01	CUSHION (LCD), SHIELD	
202	3-267-441-01	CASE (LCD), FRONT		210	3-254-866-01	RETAINER (LCD)	
203	3-254-868-01	CUSHION (LCD)		LCD1	1-805-652-12	DISPLAY PANEL, LIQUID CRYSTAL	
204	3-267-638-01	BUTTON (FUNCTION)		#2	7-685-504-19	SCREW +BTP 2X6 TYPE2 N-S	
205	3-267-443-01	BRACKET (HINGE) (LCD)		#3	7-621-773-86	SCREW +B 2.6X4	
206	X-2024-673-2	HINGE ASSY		#6	7-628-254-15	SCREW +PS 2.6X6	
207	3-267-447-01	CASE (LCD), REAR		#7	7-621-771-06	SCREW +B 2X5	
208	A-3283-765-A	LCD BOARD, COMPLETE					

SECTION 8 ELECTRICAL PARTS LIST

FRONT

JACK (IN)

JACK (OUT)

KEY

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA... : μ A... uPA... : μ PA...
uPB... : μ PB... uPC... : μ PC...
uPD... : μ PD...
- CAPACITORS
uF: μ F
- COILS
uH: μ H

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-1063-052-A	FRONT BOARD, COMPLETE *****		L702	1-216-864-11	SHORT CHIP 0	
		< CONNECTOR >		L703	1-216-864-11	SHORT CHIP 0	
CN910	1-778-529-11	PIN, CONNECTOR (PC BOARD) 7P		L704	1-216-864-11	SHORT CHIP 0	
		< DIODE >		L705	1-216-864-11	SHORT CHIP 0	
D900	6-500-287-01	LED SML-512MWT86 (POWER)		L706	1-216-864-11	SHORT CHIP 0	
D901	8-719-053-08	LED SML-310DTT86 (EJECT)				< SHORT >	
D902	8-719-053-08	LED SML-310DTT86 (DISC IN)		R937	1-216-864-11	SHORT CHIP 0	
D903	8-719-053-08	LED SML-310DTT86 (DISC SLOT ILLUMINATION)		*****			
		< RESISTOR >				JACK (OUT) BOARD *****	
R901	1-216-811-11	METAL CHIP 150 5% 1/10W				< CAPACITOR >	
R902	1-216-811-11	METAL CHIP 150 5% 1/10W		C952	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
R903	1-216-819-11	METAL CHIP 680 5% 1/10W		C953	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
R904	1-216-811-11	METAL CHIP 150 5% 1/10W		C954	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
R905	1-216-825-11	METAL CHIP 2.2K 5% 1/10W				< DIODE >	
		< SWITCH >		D920	8-719-017-62	DIODE MA8068-L-TX	
S901	1-771-737-21	SWITCH, TACTILE (RESET)		D921	8-719-017-62	DIODE MA8068-L-TX	
S902	1-762-719-21	SWITCH, TACT (POWER)		D922	8-719-017-62	DIODE MA8068-L-TX	
S903	1-762-719-21	SWITCH, TACT (EJECT)				< JACK >	
*****				J702	1-815-310-11	JACK 3P	
		JACK (IN) BOARD *****				< SHORT >	
		< CAPACITOR >		L707	1-216-864-11	SHORT CHIP 0	
C946	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V		L708	1-216-864-11	SHORT CHIP 0	
C947	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V		L709	1-216-864-11	SHORT CHIP 0	
C948	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V		L710	1-216-864-11	SHORT CHIP 0	
		< DIODE >		L711	1-216-864-11	SHORT CHIP 0	
D917	8-719-017-62	DIODE MA8068-L-TX		L712	1-216-864-11	SHORT CHIP 0	
D918	8-719-017-62	DIODE MA8068-L-TX				< RESISTOR >	
D919	8-719-017-62	DIODE MA8068-L-TX		R939	1-216-864-11	SHORT CHIP 0	
		< JACK >		*****			
J701	1-815-310-11	JACK 3P (INPUT AUDIO/VIDEO)				A-3283-761-A KEY BOARD, COMPLETE *****	
		< SHORT >				3-254-887-01 CUSHION (REMOTE)	
L701	1-216-864-11	SHORT CHIP 0					

MV-900SDS

KEY

LCD

Ref. No.	Part No.	Description	Remark		
< CAPACITOR >					
C913	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C917	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C918	1-126-396-11	ELECT CHIP	47uF	20%	16V
C920	1-137-942-21	ELECT CHIP	47uF	20%	25V
C921	1-164-298-11	CERAMIC CHIP	0.15uF	10%	25V
C922	1-135-366-11	ELECT CHIP	100uF	20%	16V
C923	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C924	1-126-401-21	ELECT CHIP	1uF	20%	50V
C925	1-126-401-21	ELECT CHIP	1uF	20%	50V
C926	1-126-401-21	ELECT CHIP	1uF	20%	50V
C927	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C928	1-137-893-11	ELECT CHIP	22uF	20%	16V
C929	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C930	1-126-394-11	ELECT CHIP	10uF	20%	16V
C931	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C932	1-126-396-11	ELECT CHIP	47uF	20%	16V
C933	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C934	1-126-396-11	ELECT CHIP	47uF	20%	16V
C941	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C942	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
< CONNECTOR >					
* CN911	1-750-345-11	CONNECTOR, FFC/EPC (ZIF) 30P			
CN912	1-695-441-21	PIN, CONNECTOR (PC BOARD) 7P			
CN913	1-750-337-21	CONNECTOR, FFC/FPC (ZIF) 10P			
< DIODE >					
D908	8-719-069-55	DIODE UDZSTE-175.6B			
D909	8-719-069-55	DIODE UDZSTE-175.6B			
D910	8-719-017-62	DIODE MA8068-L-TX			
D911	8-719-052-34	LED DAL5821 (IR TRANSMITTER)			
D912	8-719-052-34	LED DAL5821 (IR TRANSMITTER)			
D913	8-719-052-34	LED DAL5821 (IR TRANSMITTER)			
D914	8-719-052-34	LED DAL5821 (IR TRANSMITTER)			
D915	8-719-052-34	LED DAL5821 (IR TRANSMITTER)			
D916	8-719-052-34	LED DAL5821 (IR TRANSMITTER)			
< IC >					
IC901	6-703-494-01	IC S-8120C			
IC902	6-701-681-01	IC RPM7140-V4			
IC903	6-706-120-01	IC TA78DL08AF-TE16L			
IC904	8-759-497-48	IC TA2061AF-EL			
< TRANSISTOR >					
Q901	8-729-905-35	TRANSISTOR 2SC4081-R			
Q902	8-729-922-62	TRANSISTOR 2SD1760F5-TLQ			
Q903	8-729-922-62	TRANSISTOR 2SD1760F5-TLQ			
Q904	6-550-631-01	TRANSISTOR 2SA1797-T100-Q			
Q905	8-729-905-35	TRANSISTOR 2SC4081-R			
< RESISTOR >					
R906	1-216-817-11	METAL CHIP	470	5%	1/10W
R907	1-216-820-11	METAL CHIP	820	5%	1/10W
R908	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R910	1-216-807-11	METAL CHIP	68	5%	1/10W
R912	1-216-807-11	METAL CHIP	68	5%	1/10W
R913	1-216-805-11	METAL CHIP	47	5%	1/10W

Ref. No.	Part No.	Description	Remark		
R917	1-216-837-11	METAL CHIP	22K	5%	1/10W
R918	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R919	1-216-805-11	METAL CHIP	47	5%	1/10W
R920	1-216-841-11	METAL CHIP	47K	5%	1/10W
R921	1-216-841-11	METAL CHIP	47K	5%	1/10W
R922	1-216-833-11	METAL CHIP	10K	5%	1/10W
R923	1-216-857-11	METAL CHIP	1M	5%	1/10W
R925	1-216-009-00	RES-CHIP	22	5%	1/10W
R926	1-216-009-00	RES-CHIP	22	5%	1/10W
R927	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R928	1-216-837-11	METAL CHIP	22K	5%	1/10W
R930	1-216-841-11	METAL CHIP	47K	5%	1/10W
R931	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R932	1-216-821-11	METAL CHIP	1K	5%	1/10W
R933	1-216-821-11	METAL CHIP	1K	5%	1/10W
R934	1-216-864-11	SHORT CHIP	0		
< VARIABLE RESISTOR >					
RV900	1-225-907-21	RES, ADJ, CERMET (3 TYPE)	100K		
RV901	1-225-907-21	RES, ADJ, CERMET (3 TYPE)	100K		
< SWITCH >					
S904	1-786-384-31	SWITCH, TACT (WITH LED) (I◀◀)			
S905	1-786-384-31	SWITCH, TACT (WITH LED) (▶▶I)			
S906	1-786-384-31	SWITCH, TACT (WITH LED) (■)			
S907	1-786-384-31	SWITCH, TACT (WITH LED) (▶II)			

A-3283-765-A		LCD BOARD, COMPLETE			

< CAPACITOR >					
C401	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C402	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C403	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C404	1-117-579-21	DOUBLE LAYER	0.1F		3.5V
C405	1-126-396-11	ELECT CHIP	47uF	20%	16V
C406	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C407	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C408	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C409	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C412	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C450	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C463	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C480	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C481	1-126-394-11	ELECT CHIP	10uF	20%	16V
C482	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C483	1-126-394-11	ELECT CHIP	10uF	20%	16V
C484	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C485	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C486	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C501	1-126-396-11	ELECT CHIP	47uF	20%	16V
C502	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C503	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C504	1-100-763-21	ELECT CHIP	2.2uF	20%	35V
C505	1-100-763-21	ELECT CHIP	2.2uF	20%	35V
C506	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C507	1-100-763-21	ELECT CHIP	2.2uF	20%	35V

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C508	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C802	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C509	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C803	1-137-980-11	CERAMIC CHIP	0.47uF	10%	50V
C510	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C804	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C511	1-126-401-21	ELECT CHIP	1uF	20%	50V	C805	1-164-298-11	CERAMIC CHIP	0.15uF	10%	25V
C512	1-126-401-21	ELECT CHIP	1uF	20%	50V	C806	1-137-942-21	ELECT CHIP	47uF	20%	25V
C513	1-126-401-21	ELECT CHIP	1uF	20%	50V	C807	1-100-155-11	CERAMIC CHIP	470PF	5%	100V
C514	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C808	1-164-298-11	CERAMIC CHIP	0.15uF	10%	25V
C515	1-126-396-11	ELECT CHIP	47uF	20%	16V	C809	1-137-942-21	ELECT CHIP	47uF	20%	25V
C516	1-100-763-21	ELECT CHIP	2.2uF	20%	35V	C810	1-137-980-11	CERAMIC CHIP	0.47uF	10%	50V
C517	1-100-763-21	ELECT CHIP	2.2uF	20%	35V	C811	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C518	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C812	1-137-980-11	CERAMIC CHIP	0.47uF	10%	50V
C519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C813	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C520	1-100-763-21	ELECT CHIP	2.2uF	20%	35V	C815	1-164-298-11	CERAMIC CHIP	0.15uF	10%	25V
C521	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	C816	1-137-942-21	ELECT CHIP	47uF	20%	25V
C522	1-126-396-11	ELECT CHIP	47uF	20%	16V	C817	1-137-942-21	ELECT CHIP	47uF	20%	25V
C523	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V	C818	1-164-298-11	CERAMIC CHIP	0.15uF	10%	25V
C524	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C819	1-137-942-21	ELECT CHIP	47uF	20%	25V
C525	1-137-893-11	ELECT CHIP	22uF	20%	16V	C820	1-137-942-21	ELECT CHIP	47uF	20%	25V
C526	1-137-980-11	CERAMIC CHIP	0.47uF	10%	50V	C821	1-164-298-11	CERAMIC CHIP	0.15uF	10%	25V
C527	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C822	1-100-947-21	ELECT CHIP	100uF	20%	25V
C528	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	C823	1-137-942-21	ELECT CHIP	47uF	20%	25V
C529	1-137-893-11	ELECT CHIP	22uF	20%	16V	C824	1-164-298-11	CERAMIC CHIP	0.15uF	10%	25V
C530	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	C825	1-137-942-21	ELECT CHIP	47uF	20%	25V
C531	1-100-764-21	ELECT CHIP	4.7uF	20%	25V	C826	1-137-942-21	ELECT CHIP	47uF	20%	25V
C532	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C827	1-137-942-21	ELECT CHIP	47uF	20%	25V
C533	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	C828	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C534	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	C829	1-137-942-21	ELECT CHIP	47uF	20%	25V
C535	1-135-834-11	CERAMIC CHIP	2.2uF		6.3V	C830	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C536	1-100-764-21	ELECT CHIP	4.7uF	20%	25V	C831	1-137-942-21	ELECT CHIP	47uF	20%	25V
C537	1-162-920-11	CERAMIC CHIP	27PF	5%	50V	C832	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C538	1-162-916-11	CERAMIC CHIP	12PF	5%	50V	C833	1-137-942-21	ELECT CHIP	47uF	20%	25V
C539	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C834	1-164-298-11	CERAMIC CHIP	0.15uF	10%	25V
C540	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C835	1-126-396-11	ELECT CHIP	47uF	20%	16V
C541	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C836	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C542	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C837	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C543	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C838	1-126-394-11	ELECT CHIP	10uF	20%	16V
C544	1-126-401-21	ELECT CHIP	1uF	20%	50V	C839	1-126-396-11	ELECT CHIP	47uF	20%	16V
C545	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C840	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C546	1-162-914-11	CERAMIC CHIP	9PF	0.5PF	50V	C841	1-126-396-11	ELECT CHIP	47uF	20%	16V
C547	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	C842	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C551	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C843	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C604	1-126-396-11	ELECT CHIP	47uF	20%	16V	C844	1-127-820-11	CERAMIC CHIP	4.7uF	10%	16V
C605	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C845	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C606	1-162-924-11	CERAMIC CHIP	56PF	5%	50V	C850	1-100-947-21	ELECT CHIP	100uF	20%	25V
C607	1-127-820-11	CERAMIC CHIP	4.7uF	10%	16V	C851	1-137-942-21	ELECT CHIP	47uF	20%	25V
C608	1-126-396-11	ELECT CHIP	47uF	20%	16V	C852	1-100-947-21	ELECT CHIP	100uF	20%	25V
C609	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C857	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C610	1-164-298-11	CERAMIC CHIP	0.15uF	10%	25V	C858	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C650	1-107-877-11	ELECT	1000uF	20%	10V	C859	1-100-947-21	ELECT CHIP	100uF	20%	25V
C651	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C860	1-100-947-21	ELECT CHIP	100uF	20%	25V
C652	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C863	1-100-639-21	MYLAR CHIP	0.1uF	5%	100V
C653	1-164-739-11	CERAMIC CHIP	560PF	5%	50V	C864	1-115-156-11	CERAMIC CHIP	1uF		10V
C654	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C865	1-100-964-21	MYLAR CHIP	8200PF	5%	100V
C657	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C880	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C658	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C883	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C659	1-164-298-11	CERAMIC CHIP	0.15uF	10%	25V	C884	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C660	1-126-400-11	ELECT CHIP	22uF	20%	35V	C885	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C801	1-164-315-11	CERAMIC CHIP	470PF	5%	50V						

LCD

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C886	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	FL603	1-239-896-12	FILTER, EMI (SMD)	
C950	1-107-682-11	CERAMIC CHIP 1uF 10%	16V			< IC >	
C951	1-164-298-11	CERAMIC CHIP 0.15uF 10%	25V	IC401	6-804-587-01	IC uPD780023AGK-C36-9ET-A	
C952	1-100-638-91	ELECT 1000uF 20%	25V	IC402	6-703-740-01	IC S-24CS02AFT-TB-G	
C953	1-100-638-91	ELECT 1000uF 20%	25V	IC403	8-759-698-19	IC XC61CN2702MR	
C954	1-164-298-11	CERAMIC CHIP 0.15uF 10%	25V	IC405	6-803-083-01	IC uPD6467GR-546-E1	
C955	1-137-942-21	ELECT CHIP 47uF 20%	25V	IC501	6-704-269-01	IC AN2546FH-AV	
C956	1-115-156-11	CERAMIC CHIP 1uF 10V	10V				
C957	1-137-942-21	ELECT CHIP 47uF 20%	25V	IC601	6-704-648-01	IC MN5814	
C958	1-164-298-11	CERAMIC CHIP 0.15uF 10%	25V	IC602	6-704-270-01	IC NJU7071V	
C959	1-126-399-11	ELECT CHIP 10uF 20%	35V	IC801	8-759-485-77	IC BA9743AFV-E2	
C960	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V	IC802	8-759-100-96	IC uPC4558G2	
C961	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	IC850	6-703-643-01	IC TL594INSR	
C962	1-126-399-11	ELECT CHIP 10uF 20%	35V				
C963	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	IC950	6-706-120-01	IC TA78DL08AF-TE16L	
		< CONNECTOR >		IC951	6-704-684-01	IC TA78DL05AF-TE16L	
CN801	1-794-237-21	CONNECTOR, FFC/FPC 30P		IC952	6-704-268-01	IC XC6206P332MR	
CN850	1-815-494-21	PIN, CONNECTOR 2P				< COIL/SHORT >	
CN905	1-815-340-21	PIN, CONNECTOR (PWB) 11P		L401	1-412-951-11	INDUCTOR 10uH	
* CN906	1-778-528-11	PIN, CONNECTOR (PC BOARD) 13P		L402	1-412-955-11	INDUCTOR 22uH	
CN907	1-785-568-21	PIN, CONNECTOR (PC BOARD) 8P		L403	1-412-955-11	INDUCTOR 22uH	
CN908	1-816-569-21	PIN, CONNECTOR (WITH PWB) 10P		L501	1-469-527-11	INDUCTOR 47uH	
CN909	1-785-568-21	PIN, CONNECTOR (PC BOARD) 8P		L502	1-412-959-11	INDUCTOR 47uH	
		< DIODE >		L503	1-412-959-11	INDUCTOR 47uH	
D401	8-719-058-24	DIODE RB501V-40TE-17		L504	1-412-959-11	INDUCTOR 47uH	
D402	8-719-044-76	DIODE 1SS356-TW11		L601	1-412-951-11	INDUCTOR 10uH	
D461	8-719-069-55	DIODE UDZSTE-175.6B		L602	1-412-951-11	INDUCTOR 10uH	
D501	8-719-044-76	DIODE 1SS356-TW11		L603	1-412-951-11	INDUCTOR 10uH	
D601	8-719-058-24	DIODE RB501V-40TE-17		L604	1-400-194-11	INDUCTOR 1.8uH	
D602	8-719-027-74	DIODE 1SV231-TPH3		L605	1-412-951-11	INDUCTOR 10uH	
D801	8-719-988-78	DIODE SB007W03Q		L606	1-216-295-00	SHORT CHIP 0	
D802	8-719-052-18	DIODE RLS245TE-11		L607	1-216-295-00	SHORT CHIP 0	
D803	8-719-048-98	DIODE RB160L-40TE25		L801	1-456-439-21	INDUCTOR 150uH	
D804	8-719-048-98	DIODE RB160L-40TE25		L802	1-456-439-21	INDUCTOR 150uH	
D805	8-719-044-76	DIODE 1SS356-TW11		L803	1-412-951-11	INDUCTOR 10uH	
D806	8-719-044-76	DIODE 1SS356-TW11		L804	1-456-440-21	INDUCTOR 47uH	
D851	8-719-052-18	DIODE RLS245TE-11		L805	1-456-440-21	INDUCTOR 47uH	
D852	8-719-987-69	DIODE DAN217		L806	1-456-440-21	INDUCTOR 47uH	
D853	6-500-086-01	DIODE RLS4148TE-11		L807	1-456-440-21	INDUCTOR 47uH	
D950	8-719-044-76	DIODE 1SS356-TW11		L808	1-410-381-11	INDUCTOR 10uH	
D951	8-719-069-55	DIODE UDZSTE-175.6B		L809	1-412-951-11	INDUCTOR 10uH	
D952	8-719-069-55	DIODE UDZSTE-175.6B		L810	1-410-381-11	INDUCTOR 10uH	
D954	8-719-069-55	DIODE UDZSTE-175.6B		L811	1-412-951-11	INDUCTOR 10uH	
D955	8-719-069-55	DIODE UDZSTE-175.6B		L812	1-412-951-11	INDUCTOR 10uH	
D956	8-719-069-55	DIODE UDZSTE-175.6B		L813	1-412-951-11	INDUCTOR 10uH	
		< FUSE/SHORT >		L850	1-415-929-21	INDUCTOR 100uH	
F801	1-576-612-21	FUSE (1A/32V)		L851	1-419-649-21	INDUCTOR 10uH	
F850	1-576-612-21	FUSE (1A/32V)		L852	1-456-437-21	INDUCTOR 100uH	
F950	1-576-775-21	FUSE (2A/72V)		L950	1-419-649-21	INDUCTOR 10uH	
F951	1-216-296-11	SHORT CHIP 0				< TRANSISTOR >	
		< FILTER >		Q401	8-729-026-52	TRANSISTOR 2SA1576A-T106-R	
FL601	1-239-896-12	FILTER, EMI (SMD)		Q402	8-729-905-35	TRANSISTOR 2SC4081-R	
FL602	1-239-896-12	FILTER, EMI (SMD)		Q403	8-729-905-35	TRANSISTOR 2SC4081-R	
				Q501	8-729-905-35	TRANSISTOR 2SC4081-R	
				Q502	8-729-905-35	TRANSISTOR 2SC4081-R	
				Q503	8-729-905-35	TRANSISTOR 2SC4081-R	

LCD

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
Q504	8-729-905-35	TRANSISTOR	2SC4081-R			R433	1-216-809-11	METAL CHIP	100	5%	1/10W
Q505	8-729-905-35	TRANSISTOR	2SC4081-R			R434	1-216-809-11	METAL CHIP	100	5%	1/10W
Q506	8-729-905-35	TRANSISTOR	2SC4081-R			R435	1-216-809-11	METAL CHIP	100	5%	1/10W
Q601	8-729-905-35	TRANSISTOR	2SC4081-R			R436	1-216-809-11	METAL CHIP	100	5%	1/10W
						R437	1-216-809-11	METAL CHIP	100	5%	1/10W
Q603	8-729-905-35	TRANSISTOR	2SC4081-R			R438	1-216-809-11	METAL CHIP	100	5%	1/10W
Q801	6-550-139-01	TRANSISTOR	IMZ1A-T108			R439	1-216-809-11	METAL CHIP	100	5%	1/10W
Q802	8-729-922-62	TRANSISTOR	2SD1760F5-TLQ			R440	1-216-809-11	METAL CHIP	100	5%	1/10W
Q803	8-729-905-35	TRANSISTOR	2SC4081-R			R442	1-216-809-11	METAL CHIP	100	5%	1/10W
Q804	8-729-026-52	TRANSISTOR	2SA1576A-T106-R			R443	1-216-809-11	METAL CHIP	100	5%	1/10W
Q805	6-550-139-01	TRANSISTOR	IMZ1A-T108			R444	1-216-809-11	METAL CHIP	100	5%	1/10W
Q806	8-729-905-35	TRANSISTOR	2SC4081-R			R445	1-216-809-11	METAL CHIP	100	5%	1/10W
Q807	8-729-026-52	TRANSISTOR	2SA1576A-T106-R			R446	1-216-809-11	METAL CHIP	100	5%	1/10W
Q853	8-729-905-35	TRANSISTOR	2SC4081-R			R447	1-216-809-11	METAL CHIP	100	5%	1/10W
Q854	8-729-026-52	TRANSISTOR	2SA1576A-T106-R			R448	1-216-809-11	METAL CHIP	100	5%	1/10W
Q855	8-729-905-35	TRANSISTOR	2SC4081-R			R449	1-216-809-11	METAL CHIP	100	5%	1/10W
Q856	6-550-630-01	FET	CPH6316			R450	1-216-809-11	METAL CHIP	100	5%	1/10W
Q857	6-550-632-01	TRANSISTOR	2SC4672-T100-Q			R451	1-218-736-11	METAL CHIP	68K	0.5%	1/10W
Q858	6-550-632-01	TRANSISTOR	2SC4672-T100-Q			R452	1-218-720-11	METAL CHIP	15K	0.5%	1/10W
Q859	8-729-026-52	TRANSISTOR	2SA1576A-T106-R			R453	1-218-722-11	METAL CHIP	18K	0.5%	1/10W
Q860	8-729-026-52	TRANSISTOR	2SA1576A-T106-R			R454	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
Q861	8-729-905-35	TRANSISTOR	2SC4081-R			R455	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q951	8-729-056-58	FET	TPC6102 (TE85R)			R456	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q952	8-729-905-35	TRANSISTOR	2SC4081-R			R457	1-218-692-11	METAL CHIP	1K	0.5%	1/10W
Q953	8-729-026-52	TRANSISTOR	2SA1576A-T106-R			R458	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
Q955	8-729-026-52	TRANSISTOR	2SA1576A-T106-R			R460	1-216-837-11	METAL CHIP	22K	5%	1/10W
		< RESISTOR >				R461	1-216-837-11	METAL CHIP	22K	5%	1/10W
R401	1-216-841-11	METAL CHIP	47K	5%	1/10W	R462	1-216-837-11	METAL CHIP	22K	5%	1/10W
R402	1-216-809-11	METAL CHIP	100	5%	1/10W	R466	1-216-821-11	METAL CHIP	1K	5%	1/10W
R403	1-216-809-11	METAL CHIP	100	5%	1/10W	R467	1-216-817-11	METAL CHIP	470	5%	1/10W
R404	1-216-809-11	METAL CHIP	100	5%	1/10W	R468	1-216-820-11	METAL CHIP	820	5%	1/10W
R405	1-216-809-11	METAL CHIP	100	5%	1/10W	R469	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R406	1-216-809-11	METAL CHIP	100	5%	1/10W	R470	1-216-833-11	METAL CHIP	10K	5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W	R471	1-216-843-11	METAL CHIP	68K	5%	1/10W
R408	1-216-809-11	METAL CHIP	100	5%	1/10W	R472	1-216-809-11	METAL CHIP	100	5%	1/10W
R411	1-216-809-11	METAL CHIP	100	5%	1/10W	R473	1-216-809-11	METAL CHIP	100	5%	1/10W
R412	1-216-809-11	METAL CHIP	100	5%	1/10W	R474	1-216-809-11	METAL CHIP	100	5%	1/10W
R413	1-216-809-11	METAL CHIP	100	5%	1/10W	R475	1-216-849-11	METAL CHIP	220K	5%	1/10W
R414	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R476	1-216-849-11	METAL CHIP	220K	5%	1/10W
R415	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R477	1-216-809-11	METAL CHIP	100	5%	1/10W
R416	1-216-809-11	METAL CHIP	100	5%	1/10W	R478	1-216-849-11	METAL CHIP	220K	5%	1/10W
R417	1-216-809-11	METAL CHIP	100	5%	1/10W	R479	1-216-864-11	SHORT CHIP	0		
R418	1-216-809-11	METAL CHIP	100	5%	1/10W	R480	1-216-809-11	METAL CHIP	100	5%	1/10W
R419	1-216-809-11	METAL CHIP	100	5%	1/10W	R481	1-216-809-11	METAL CHIP	100	5%	1/10W
R420	1-216-809-11	METAL CHIP	100	5%	1/10W	R482	1-216-809-11	METAL CHIP	100	5%	1/10W
R421	1-216-809-11	METAL CHIP	100	5%	1/10W	R483	1-216-833-11	METAL CHIP	10K	5%	1/10W
R422	1-216-809-11	METAL CHIP	100	5%	1/10W	R484	1-216-845-11	METAL CHIP	100K	5%	1/10W
R423	1-216-809-11	METAL CHIP	100	5%	1/10W	R485	1-216-833-11	METAL CHIP	10K	5%	1/10W
R424	1-216-809-11	METAL CHIP	100	5%	1/10W	R486	1-216-809-11	METAL CHIP	100	5%	1/10W
R425	1-216-809-11	METAL CHIP	100	5%	1/10W	R487	1-216-809-11	METAL CHIP	100	5%	1/10W
R426	1-216-809-11	METAL CHIP	100	5%	1/10W	R488	1-216-809-11	METAL CHIP	100	5%	1/10W
R427	1-216-809-11	METAL CHIP	100	5%	1/10W	R489	1-216-809-11	METAL CHIP	100	5%	1/10W
R428	1-216-809-11	METAL CHIP	100	5%	1/10W	R490	1-216-809-11	METAL CHIP	100	5%	1/10W
R429	1-216-833-11	METAL CHIP	10K	5%	1/10W	R491	1-216-809-11	METAL CHIP	100	5%	1/10W
R430	1-216-809-11	METAL CHIP	100	5%	1/10W	R492	1-216-845-11	METAL CHIP	100K	5%	1/10W
R431	1-216-864-11	SHORT CHIP	0			R493	1-216-841-11	METAL CHIP	47K	5%	1/10W
R432	1-216-809-11	METAL CHIP	100	5%	1/10W	R494	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R495	1-216-864-11	SHORT CHIP	0		

MV-900SDS

LCD

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R496	1-216-864-11	SHORT CHIP	0			R620	1-216-809-11	METAL CHIP	100	5%	1/10W
R497	1-216-864-11	SHORT CHIP	0			R621	1-216-809-11	METAL CHIP	100	5%	1/10W
R498	1-216-864-11	SHORT CHIP	0			R624	1-216-809-11	METAL CHIP	100	5%	1/10W
R499	1-216-295-00	SHORT CHIP	0			R625	1-216-841-11	METAL CHIP	47K	5%	1/10W
R501	1-216-805-11	METAL CHIP	47	5%	1/10W	R627	1-216-809-11	METAL CHIP	100	5%	1/10W
R502	1-216-805-11	METAL CHIP	47	5%	1/10W	R630	1-216-809-11	METAL CHIP	100	5%	1/10W
R503	1-216-805-11	METAL CHIP	47	5%	1/10W	R631	1-216-809-11	METAL CHIP	100	5%	1/10W
R504	1-216-844-11	METAL CHIP	82K	5%	1/10W	R632	1-216-809-11	METAL CHIP	100	5%	1/10W
R505	1-216-839-11	METAL CHIP	33K	5%	1/10W	R633	1-216-853-11	METAL CHIP	470K	5%	1/10W
R506	1-216-845-11	METAL CHIP	100K	5%	1/10W	R634	1-216-838-11	METAL CHIP	27K	5%	1/10W
R507	1-216-809-11	METAL CHIP	100	5%	1/10W	R635	1-216-809-11	METAL CHIP	100	5%	1/10W
R508	1-216-857-11	METAL CHIP	1M	5%	1/10W	R637	1-216-809-11	METAL CHIP	100	5%	1/10W
R509	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R638	1-216-809-11	METAL CHIP	100	5%	1/10W
R510	1-216-833-11	METAL CHIP	10K	5%	1/10W	R639	1-216-809-11	METAL CHIP	100	5%	1/10W
R511	1-216-809-11	METAL CHIP	100	5%	1/10W	R640	1-216-837-11	METAL CHIP	22K	5%	1/10W
R512	1-216-809-11	METAL CHIP	100	5%	1/10W	R641	1-216-837-11	METAL CHIP	22K	5%	1/10W
R513	1-216-849-11	METAL CHIP	220K	5%	1/10W	R642	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R514	1-216-815-11	METAL CHIP	330	5%	1/10W	R643	1-216-813-11	METAL CHIP	220	5%	1/10W
R515	1-216-821-11	METAL CHIP	1K	5%	1/10W	R651	1-216-843-11	METAL CHIP	68K	5%	1/10W
R516	1-216-835-11	METAL CHIP	15K	5%	1/10W	R652	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R517	1-216-839-11	METAL CHIP	33K	5%	1/10W	R653	1-216-841-11	METAL CHIP	47K	5%	1/10W
R518	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R654	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R519	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R655	1-216-837-11	METAL CHIP	22K	5%	1/10W
R520	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R657	1-216-843-11	METAL CHIP	68K	5%	1/10W
R521	1-216-833-11	METAL CHIP	10K	5%	1/10W	R658	1-216-857-11	METAL CHIP	1M	5%	1/10W
R522	1-216-833-11	METAL CHIP	10K	5%	1/10W	R659	1-216-833-11	METAL CHIP	10K	5%	1/10W
R523	1-216-837-11	METAL CHIP	22K	5%	1/10W	R660	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R524	1-216-833-11	METAL CHIP	10K	5%	1/10W	R661	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R525	1-216-864-11	SHORT CHIP	0			R662	1-216-864-11	SHORT CHIP	0		
R526	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R663	1-216-864-11	SHORT CHIP	0		
R527	1-216-841-11	METAL CHIP	47K	5%	1/10W	R801	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R528	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R802	1-216-840-11	METAL CHIP	39K	5%	1/10W
R529	1-218-272-11	METAL CHIP	5.1K	5%	1/10W	R803	1-216-840-11	METAL CHIP	39K	5%	1/10W
R530	1-216-809-11	METAL CHIP	100	5%	1/10W	R804	1-216-836-11	METAL CHIP	18K	5%	1/10W
R537	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	R805	1-216-839-11	METAL CHIP	33K	5%	1/10W
R538	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R806	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R539	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R807	1-216-839-11	METAL CHIP	33K	5%	1/10W
R540	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R808	1-216-839-11	METAL CHIP	33K	5%	1/10W
R601	1-216-809-11	METAL CHIP	100	5%	1/10W	R809	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R602	1-216-809-11	METAL CHIP	100	5%	1/10W	R810	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R603	1-216-809-11	METAL CHIP	100	5%	1/10W	R811	1-216-295-00	SHORT CHIP	0		
R604	1-216-809-11	METAL CHIP	100	5%	1/10W	R812	1-216-839-11	METAL CHIP	33K	5%	1/10W
R605	1-216-809-11	METAL CHIP	100	5%	1/10W	R813	1-216-836-11	METAL CHIP	18K	5%	1/10W
R606	1-216-809-11	METAL CHIP	100	5%	1/10W	R814	1-216-849-11	METAL CHIP	220K	5%	1/10W
R607	1-216-809-11	METAL CHIP	100	5%	1/10W	R815	1-216-821-11	METAL CHIP	1K	5%	1/10W
R608	1-216-809-11	METAL CHIP	100	5%	1/10W	R816	1-216-840-11	METAL CHIP	39K	5%	1/10W
R609	1-216-809-11	METAL CHIP	100	5%	1/10W	R817	1-216-840-11	METAL CHIP	39K	5%	1/10W
R610	1-216-809-11	METAL CHIP	100	5%	1/10W	R829	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R611	1-216-837-11	METAL CHIP	22K	5%	1/10W	R830	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R612	1-216-837-11	METAL CHIP	22K	5%	1/10W	R831	1-216-864-11	SHORT CHIP	0		
R613	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R832	1-216-841-11	METAL CHIP	47K	5%	1/10W
R614	1-216-809-11	METAL CHIP	100	5%	1/10W	R833	1-216-834-11	METAL CHIP	12K	5%	1/10W
R615	1-216-809-11	METAL CHIP	100	5%	1/10W	R836	1-216-834-11	METAL CHIP	12K	5%	1/10W
R616	1-216-809-11	METAL CHIP	100	5%	1/10W	R837	1-216-840-11	METAL CHIP	39K	5%	1/10W
R617	1-216-809-11	METAL CHIP	100	5%	1/10W	R838	1-216-842-11	METAL CHIP	56K	5%	1/10W
R618	1-216-809-11	METAL CHIP	100	5%	1/10W	R839	1-216-805-11	METAL CHIP	47	5%	1/10W
R619	1-216-809-11	METAL CHIP	100	5%	1/10W	R840	1-216-837-11	METAL CHIP	22K	5%	1/10W
						R841	1-216-841-11	METAL CHIP	47K	5%	1/10W

LCD

MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R842	1-216-834-11	METAL CHIP	12K	5%	1/10W			< SWITCH >			
R843	1-216-837-11	METAL CHIP	22K	5%	1/10W						
						S401	1-762-196-21	SWITCH, TACT (VOL -)			
R844	1-216-805-11	METAL CHIP	47	5%	1/10W	S402	1-762-196-21	SWITCH, TACT (REVERSE)			
R845	1-216-839-11	METAL CHIP	33K	5%	1/10W	S403	1-762-196-21	SWITCH, TACT (MENU)			
R846	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	S404	1-762-196-21	SWITCH, TACT (VOL +)			
R847	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R848	1-216-840-11	METAL CHIP	39K	5%	1/10W			< TRANSFORMER >			
R849	1-216-840-11	METAL CHIP	39K	5%	1/10W	T801	1-439-852-21	TRANSFORMER, DC-DC CONVERTER			
R855	1-216-837-11	METAL CHIP	22K	5%	1/10W	T850	1-439-853-21	TRANSFORMER, INVERTER			
R856	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R857	1-216-841-11	METAL CHIP	47K	5%	1/10W			< VIBRATOR >			
R858	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R859	1-220-277-11	RES-CHIP	2.2K	5%	1/4W	X401	1-795-307-21	VIBRATOR, CERAMIC (4.19MHz)			
R860	1-216-813-11	METAL CHIP	220	5%	1/10W	X501	1-767-104-21	VIBRATOR, CRYSTAL (3.58MHz)			
R861	1-216-813-11	METAL CHIP	220	5%	1/10W	X502	1-813-108-11	QUARTZ CRYSTAL UNIT (4.43MHz)			
R863	1-216-813-11	METAL CHIP	220	5%	1/10W	*****					
R864	1-216-865-11	METAL CHIP	3K	5%	1/10W		A-3283-763-A	MAIN BOARD, COMPLETE			

R865	1-216-865-11	METAL CHIP	3K	5%	1/10W						
R866	1-216-865-11	METAL CHIP	3K	5%	1/10W		7-621-771-06	SCREW +B 2X5			
R868	1-216-865-11	METAL CHIP	3K	5%	1/10W						
R869	1-216-865-11	METAL CHIP	3K	5%	1/10W			< CAPACITOR/SHORT/DIODE >			
R870	1-216-865-11	METAL CHIP	3K	5%	1/10W						
R871	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	C1	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
R872	1-216-836-11	METAL CHIP	18K	5%	1/10W	C2	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
R873	1-216-837-11	METAL CHIP	22K	5%	1/10W	C3	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
R874	1-216-837-11	METAL CHIP	22K	5%	1/10W	C4	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
R875	1-216-833-11	METAL CHIP	10K	5%	1/10W	C5	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
R876	1-216-837-11	METAL CHIP	22K	5%	1/10W	C6	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
R877	1-216-833-11	METAL CHIP	10K	5%	1/10W	C7	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
R878	1-216-821-11	METAL CHIP	1K	5%	1/10W	C8	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
R882	1-218-708-11	METAL CHIP	4.7K	0.5%	1/10W	C9	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
R883	1-218-716-11	METAL CHIP	10K	0.5%	1/10W	C10	1-164-934-11	CERAMIC CHIP	330PF	10%	50V
R884	1-218-713-11	METAL CHIP	7.5K	0.5%	1/10W	C14	1-128-702-81	CERAMIC CHIP	11PF	5%	50V
R885	1-216-837-11	METAL CHIP	22K	5%	1/10W	C15	1-128-702-81	CERAMIC CHIP	11PF	5%	50V
R886	1-216-837-11	METAL CHIP	22K	5%	1/10W	C17	1-126-394-11	ELECT CHIP	10uF	20%	16V
R889	1-216-839-11	METAL CHIP	33K	5%	1/10W	C18	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
R890	1-216-834-11	METAL CHIP	12K	5%	1/10W	C19	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
R891	1-216-834-11	METAL CHIP	12K	5%	1/10W	C21	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
R892	1-216-833-11	METAL CHIP	10K	5%	1/10W	C22	1-126-394-11	ELECT CHIP	10uF	20%	16V
R893	1-216-833-11	METAL CHIP	10K	5%	1/10W	C23	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
R951	1-216-847-11	METAL CHIP	150K	5%	1/10W	C24	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
R952	1-216-847-11	METAL CHIP	150K	5%	1/10W	C25	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
R953	1-216-833-11	METAL CHIP	10K	5%	1/10W	C26	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
R954	1-216-845-11	METAL CHIP	100K	5%	1/10W	C27	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
R955	1-216-837-11	METAL CHIP	22K	5%	1/10W	C28	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
R956	1-216-833-11	METAL CHIP	10K	5%	1/10W	C29	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
R959	1-216-837-11	METAL CHIP	22K	5%	1/10W	C30	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
R960	1-216-833-11	METAL CHIP	10K	5%	1/10W	C31	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
R964	1-216-864-11	SHORT CHIP	0			C32	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
						C33	1-126-394-11	ELECT CHIP	10uF	20%	16V
						C34	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
						C35	1-164-862-11	CERAMIC CHIP	33PF	5%	50V
		< VARIABLE RESISTOR >									
RV601	1-225-905-21	RES, ADJ, CERMET (3 TYPE)	47K			C44	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
RV801	1-225-901-21	RES, ADJ, CERMET (3 TYPE)	10K			C52	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
RV802	1-225-905-21	RES, ADJ, CERMET (3 TYPE)	47K			C58	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
RV803	1-225-901-21	RES, ADJ, CERMET (3 TYPE)	10K			C66	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
						C68	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
						C69	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C71	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C179	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C72	1-164-854-11	CERAMIC CHIP	15PF	5%	50V	C201	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C74	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C202	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C75	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C203	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C78	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C204	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C79	1-164-935-11	CERAMIC CHIP	470PF	10%	50V	C209	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C80	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C210	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C81	8-719-017-62	DIODE MA8068-L-TX				C211	1-126-399-11	ELECT CHIP	10uF	20%	35V
C82	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C212	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C83	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V	C213	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C84	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C214	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C86	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C215	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C87	1-164-874-11	CERAMIC CHIP	100PF	5%	50V	C216	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C89	1-164-874-11	CERAMIC CHIP	100PF	5%	50V	C217	1-126-399-11	ELECT CHIP	10uF	20%	35V
C90	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C218	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C91	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C219	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C92	1-127-573-11	CERAMIC CHIP	1uF	10%	16V	C220	1-126-393-11	ELECT CHIP	33uF	20%	10V
C94	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C221	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C95	1-164-935-11	CERAMIC CHIP	470PF	10%	50V	C222	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C96	1-164-935-11	CERAMIC CHIP	470PF	10%	50V	C223	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C97	1-164-935-11	CERAMIC CHIP	470PF	10%	50V	C224	1-162-926-11	CERAMIC CHIP	82PF	5%	50V
C98	1-164-935-11	CERAMIC CHIP	470PF	10%	50V	C225	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C99	1-164-935-11	CERAMIC CHIP	470PF	10%	50V	C226	1-135-366-11	ELECT CHIP	100uF	20%	16V
C100	1-164-935-11	CERAMIC CHIP	470PF	10%	50V	C227	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C101	1-164-862-11	CERAMIC CHIP	33PF	5%	50V	C228	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C102	1-164-862-11	CERAMIC CHIP	33PF	5%	50V	C229	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C103	1-164-862-11	CERAMIC CHIP	33PF	5%	50V	C230	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C104	1-164-862-11	CERAMIC CHIP	33PF	5%	50V	C231	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C105	1-164-862-11	CERAMIC CHIP	33PF	5%	50V	C232	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C106	1-164-862-11	CERAMIC CHIP	33PF	5%	50V	C251	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C134	1-164-862-11	CERAMIC CHIP	33PF	5%	50V	C252	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C135	1-164-862-11	CERAMIC CHIP	33PF	5%	50V	C253	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C143	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C254	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C144	1-126-396-11	ELECT CHIP	47uF	20%	16V	C255	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C145	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C301	1-107-890-11	ELECT	2200uF	20%	25V
C146	1-126-396-11	ELECT CHIP	47uF	20%	16V	C302	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C147	1-126-394-11	ELECT CHIP	10uF	20%	16V	C303	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C148	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C304	1-117-316-11	ELECT	470uF	20%	25V
C149	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C305	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C150	1-126-399-11	ELECT CHIP	10uF	20%	35V	C306	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C151	1-164-862-11	CERAMIC CHIP	33PF	5%	50V	C307	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C157	1-164-935-11	CERAMIC CHIP	470PF	10%	50V	C309	1-117-316-11	ELECT	470uF	20%	25V
C161	1-126-399-11	ELECT CHIP	10uF	20%	35V	C310	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C162	1-126-399-11	ELECT CHIP	10uF	20%	35V	C313	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C165	1-100-769-21	ELECT CHIP	470uF	20%	16V	C314	1-107-890-11	ELECT	2200uF	20%	25V
C166	1-135-366-11	ELECT CHIP	100uF	20%	16V	C315	1-117-316-11	ELECT	470uF	20%	25V
C167	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C316	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C168	1-126-399-11	ELECT CHIP	10uF	20%	35V	C317	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C169	1-126-399-11	ELECT CHIP	10uF	20%	35V	C318	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C170	1-126-399-11	ELECT CHIP	10uF	20%	35V	C320	1-107-890-11	ELECT	2200uF	20%	25V
C171	1-126-399-11	ELECT CHIP	10uF	20%	35V	C321	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C172	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C324	1-126-399-11	ELECT CHIP	10uF	20%	35V
C173	1-126-399-11	ELECT CHIP	10uF	20%	35V	C325	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C174	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C326	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C175	1-126-399-11	ELECT CHIP	10uF	20%	35V	C327	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C176	1-126-399-11	ELECT CHIP	10uF	20%	35V	C328	1-126-399-11	ELECT CHIP	10uF	20%	35V
C177	1-164-874-11	CERAMIC CHIP	100PF	5%	50V	C329	1-164-298-11	CERAMIC CHIP	0.15uF	10%	25V
C178	1-164-874-11	CERAMIC CHIP	100PF	5%	50V						

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C330	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C703	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C331	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	C704	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C332	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V	C705	1-126-394-11	ELECT CHIP	10uF	20%	16V
C333	1-115-156-11	CERAMIC CHIP	1uF		10V	C706	1-100-767-21	ELECT CHIP	220uF	20%	16V
C335	1-137-893-11	ELECT CHIP	22uF	20%	16V	C707	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C336	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C708	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C337	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C709	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C338	1-137-942-21	ELECT CHIP	47uF	20%	25V	C710	1-126-394-11	ELECT CHIP	10uF	20%	16V
C339	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C711	1-126-394-11	ELECT CHIP	10uF	20%	16V
C340	1-137-942-21	ELECT CHIP	47uF	20%	25V	C712	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C341	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C713	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C342	1-126-399-11	ELECT CHIP	10uF	20%	35V	C714	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C343	1-137-942-21	ELECT CHIP	47uF	20%	25V	C715	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C344	1-137-893-11	ELECT CHIP	22uF	20%	16V	C716	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C345	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C717	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C346	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C718	1-126-399-11	ELECT CHIP	10uF	20%	35V
C347	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C719	1-126-399-11	ELECT CHIP	10uF	20%	35V
C348	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C720	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C349	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V	C721	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C350	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C722	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C351	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C723	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C362	1-100-768-21	ELECT CHIP	220uF	20%	25V	C724	1-100-764-21	ELECT CHIP	4.7uF	20%	25V
C363	1-109-953-11	ELECT	2.2uF	20%	50V	C725	1-100-764-21	ELECT CHIP	4.7uF	20%	25V
C364	1-126-401-21	ELECT CHIP	1uF	20%	50V	C726	1-100-764-21	ELECT CHIP	4.7uF	20%	25V
C365	1-137-942-21	ELECT CHIP	47uF	20%	25V	C727	1-100-764-21	ELECT CHIP	4.7uF	20%	25V
C366	1-115-156-11	CERAMIC CHIP	1uF		10V	C730	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C367	1-126-399-11	ELECT CHIP	10uF	20%	35V	C731	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C368	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C732	1-126-396-11	ELECT CHIP	47uF	20%	16V
C369	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C733	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C370	1-135-366-11	ELECT CHIP	100uF	20%	16V	C734	1-135-366-11	ELECT CHIP	100uF	20%	16V
C371	1-115-156-11	CERAMIC CHIP	1uF		10V	C735	1-126-399-11	ELECT CHIP	10uF	20%	35V
C372	1-126-399-11	ELECT CHIP	10uF	20%	35V	C736	1-126-399-11	ELECT CHIP	10uF	20%	35V
C373	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C737	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C376	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C738	1-135-366-11	ELECT CHIP	100uF	20%	16V
C377	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C743	1-126-399-11	ELECT CHIP	10uF	20%	35V
C378	1-100-767-21	ELECT CHIP	220uF	20%	16V	C744	1-126-399-11	ELECT CHIP	10uF	20%	35V
C379	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C745	1-100-767-21	ELECT CHIP	220uF	20%	16V
C381	1-135-366-11	ELECT CHIP	100uF	20%	16V	C746	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C382	1-135-366-11	ELECT CHIP	100uF	20%	16V	C747	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C383	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C748	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C384	1-135-366-11	ELECT CHIP	100uF	20%	16V	C749	1-216-864-11	SHORT CHIP	0		
C385	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C750	1-216-864-11	SHORT CHIP	0		
C386	1-126-394-11	ELECT CHIP	10uF	20%	16V	C751	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C387	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C752	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C388	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C755	1-135-366-11	ELECT CHIP	100uF	20%	16V
C389	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C756	1-100-764-21	ELECT CHIP	4.7uF	20%	25V
C390	1-100-769-21	ELECT CHIP	470uF	20%	16V	C757	1-126-399-11	ELECT CHIP	10uF	20%	35V
C391	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C758	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C392	1-126-394-11	ELECT CHIP	10uF	20%	16V	C759	1-137-893-11	ELECT CHIP	22uF	20%	16V
C393	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C761	1-107-877-11	ELECT	1000uF	20%	10V
C394	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C762	1-107-877-11	ELECT	1000uF	20%	10V
C395	1-100-769-21	ELECT CHIP	470uF	20%	16V	C763	1-107-877-11	ELECT	1000uF	20%	10V
C396	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C764	1-107-877-11	ELECT	1000uF	20%	10V
C397	1-126-396-11	ELECT CHIP	47uF	20%	16V	C765	1-100-764-21	ELECT CHIP	4.7uF	20%	25V
C398	1-164-298-11	CERAMIC CHIP	0.15uF	10%	25V	C766	1-100-764-21	ELECT CHIP	4.7uF	20%	25V
C400	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C767	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C701	1-126-401-21	ELECT CHIP	1uF	20%	50V	C768	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C702	1-126-401-21	ELECT CHIP	1uF	20%	50V						

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C769	1-137-942-21	ELECT CHIP 47uF 20%	25V	D320	8-719-067-83	DIODE RB161L-40TE25	
C770	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	D321	8-719-067-83	DIODE RB161L-40TE25	
C771	1-100-764-21	ELECT CHIP 4.7uF 20%	25V	D701	8-719-991-33	DIODE 1SS133T-77	
C772	1-100-764-21	ELECT CHIP 4.7uF 20%	25V			< FUSE >	
C773	1-162-927-11	CERAMIC CHIP 100PF 5%	50V	F301	1-576-775-21	FUSE (2/72V)	
C774	1-162-927-11	CERAMIC CHIP 100PF 5%	50V	F302	1-576-604-21	FUSE (1A/72V)	
C775	1-126-399-11	ELECT CHIP 10uF 20%	35V			< FERRITE BEAD >	
C776	1-126-399-11	ELECT CHIP 10uF 20%	35V	FB1	1-469-855-21	INDUCTOR, FERRITE BEAD	
C790	1-162-927-11	CERAMIC CHIP 100PF 5%	50V	FB2	1-469-855-21	INDUCTOR, FERRITE BEAD	
C791	1-162-927-11	CERAMIC CHIP 100PF 5%	50V	FB3	1-469-855-21	INDUCTOR, FERRITE BEAD	
C792	1-164-874-11	CERAMIC CHIP 100PF 5%	50V			< FILTER >	
C793	1-164-874-11	CERAMIC CHIP 100PF 5%	50V	FL201	1-239-507-11	FILTER, BAND PASS	
C794	1-164-941-11	CERAMIC CHIP 0.0047uF 10%	16V			< IC >	
C795	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V	IC1	6-706-661-01	IC ES6008FF	
C796	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V	IC2	6-706-087-01	IC PST3645NR	
C797	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	IC3	6-804-588-01	IC MBM29LV800TA-70PFTN-7586-1	
		< CONNECTOR >		IC5	6-703-740-01	IC S-24CS02AFT-TB-G	
* CN101	1-793-032-11	CONNECTOR 50P		IC6	6-706-662-01	IC HY57V641620HGT-HI	
CN102	1-750-345-11	CONNECTOR, FFC/EPC (ZIF) 30P		IC7	6-703-788-01	IC PCM1751DBQR	
* CN103	1-778-528-11	PIN, CONNECTOR (PC BOARD) 13P		IC101	6-703-622-01	IC MM1508XNRE	
CN104	1-770-359-41	PIN, CONNECTOR (PC BOARD) 2P		IC102	8-759-448-68	IC NJM2283V-TE1	
CN105	1-815-340-21	PIN, CONNECTOR (PWB) 11P		IC201	8-759-680-25	IC BH1415F-E2	
CN107	1-785-568-21	PIN, CONNECTOR (PC BOARD) 8P		IC301	8-759-485-77	IC BA9743AFV-E2	
CN108	1-816-569-21	PIN, CONNECTOR (WITH PWB) 10P		IC302	8-759-175-30	IC NJM78L12UA-TE1	
* CN201	1-766-809-11	PIN, CONNECTOR (PC BOARD) 3P		IC303	6-706-120-01	IC TA78DL08AF-TE16L	
* CN301	1-691-785-11	PIN, CONNECTOR (PC BOARD) 4P		IC304	6-701-109-01	IC XC6202P502PR	
CN302	1-770-359-11	PIN, CONNECTOR (PC BOARD) 2P		IC305	9-885-037-85	IC XC6377B103SR	
CN701	1-778-529-11	PIN, CONNECTOR (PC BOARD) 7P		IC306	9-885-037-85	IC XC6377B103SR	
CN702	1-770-851-21	PIN, CONNECTOR (PC BOARD) 6P		IC701	8-759-382-59	IC RC4558DR	
CN705	1-770-360-11	PIN, CONNECTOR (PC BOARD) 4P		IC703	6-706-118-01	IC RC4580IPWR	
		< DIODE >		IC704	8-759-710-86	IC NJM2233BM	
D1	8-719-066-16	DIODE RB491D-T146		IC705	8-759-710-86	IC NJM2233BM	
D12	8-719-066-16	DIODE RB491D-T146		IC706	6-701-919-01	IC PT2257-S	
D13	8-719-914-43	DIODE DAN202K		IC707	6-701-061-01	IC LA4627-E	
D14	8-719-066-16	DIODE RB491D-T146		IC708	8-759-278-58	IC NJM4558V-TE2	
D201	8-719-076-71	DIODE KV1471ETR				< IC >	
D202	8-719-044-76	DIODE 1SS356-TW11		J301	8-749-016-00	IC HVE0024 (OPTICAL OUTPUT)	
D203	8-719-044-76	DIODE 1SS356-TW11				< COIL/SHORT >	
D204	8-719-044-76	DIODE 1SS356-TW11		L1	1-469-844-11	INDUCTOR 2.2uH	
D301	8-719-049-38	DIODE 1N5404TU		L2	1-469-844-11	INDUCTOR 2.2uH	
D302	8-719-072-43	DIODE RB050L-40TE25		L3	1-469-844-11	INDUCTOR 2.2uH	
D303	8-719-069-55	DIODE UDZSTE-175.6B		L7	1-400-198-21	INDUCTOR, FERRITE BEAD (1005)	
D304	8-719-069-55	DIODE UDZSTE-175.6B		L8	1-400-198-21	INDUCTOR, FERRITE BEAD (1005)	
D305	8-719-988-61	DIODE 1SS355TE-17		L9	1-400-198-21	INDUCTOR, FERRITE BEAD (1005)	
D306	8-719-988-61	DIODE 1SS355TE-17		L10	1-400-198-21	INDUCTOR, FERRITE BEAD (1005)	
D307	8-719-988-61	DIODE 1SS355TE-17		L11	1-400-198-21	INDUCTOR, FERRITE BEAD (1005)	
D308	8-719-988-61	DIODE 1SS355TE-17		L12	1-400-198-21	INDUCTOR, FERRITE BEAD (1005)	
D309	8-719-083-71	DIODE UDZSTE-1730B		L40	1-400-198-21	INDUCTOR, FERRITE BEAD (1005)	
D310	8-719-017-62	DIODE MA8068-L-TX		L41	1-400-198-21	INDUCTOR, FERRITE BEAD (1005)	
D312	8-719-044-76	DIODE 1SS356-TW11		L48	1-469-379-11	FERRITE, EMI (SMD) (2012)	
D313	8-719-069-55	DIODE UDZSTE-175.6B					
D314	8-719-072-43	DIODE RB050L-40TE25					
D315	8-719-988-61	DIODE 1SS355TE-17					
D316	8-719-988-61	DIODE 1SS355TE-17					
D317	8-719-914-43	DIODE DAN202K					
D318	8-719-914-43	DIODE DAN202K					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
L50	1-469-844-11	INDUCTOR 2.2uH		Q309	6-550-631-01	TRANSISTOR 2SA1797-T100-Q	
L51	1-469-379-11	FERRITE, EMI (SMD) (2012)		Q310	8-729-026-52	TRANSISTOR 2SA1576A-T106-R	
L52	1-469-379-11	FERRITE, EMI (SMD) (2012)		Q311	8-729-905-35	TRANSISTOR 2SC4081-R	
L53	1-469-379-11	FERRITE, EMI (SMD) (2012)		Q312	8-729-905-35	TRANSISTOR 2SC4081-R	
L54	1-414-757-11	INDUCTOR 100uH		Q313	8-729-026-52	TRANSISTOR 2SA1576A-T106-R	
L55	1-400-198-21	INDUCTOR, FERRITE BEAD (1005)		Q314	8-729-026-52	TRANSISTOR 2SA1576A-T106-R	
L56	1-469-080-11	INDUCTOR, FERRITE BEAD (1005)		Q315	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L101	1-412-955-11	INDUCTOR 22uH		Q316	8-729-905-35	TRANSISTOR 2SC4081-R	
L201	1-414-691-21	INDUCTOR 100nH		Q317	8-729-905-35	TRANSISTOR 2SC4081-R	
L202	1-469-844-11	INDUCTOR 2.2uH		Q318	8-729-026-52	TRANSISTOR 2SA1576A-T106-R	
L203	1-416-107-21	COIL, COMMON MODE CHOKE		Q319	6-550-610-01	TRANSISTOR 2SB1694	
L301	1-456-891-11	COIL, CHOKE 100uH		Q320	8-729-905-35	TRANSISTOR 2SC4081-R	
L302	1-400-707-21	INDUCTOR 22uH		Q321	6-550-610-01	TRANSISTOR 2SB1694	
L303	1-400-707-21	INDUCTOR 22uH		Q322	8-729-905-35	TRANSISTOR 2SC4081-R	
L304	1-400-707-21	INDUCTOR 22uH		Q323	8-729-905-35	TRANSISTOR 2SC4081-R	
L305	1-400-707-21	INDUCTOR 22uH		Q324	6-550-631-01	TRANSISTOR 2SA1797-T100-Q	
L306	1-400-707-21	INDUCTOR 22uH		Q325	8-729-056-58	FET TPC6102 (TE85R)	
L307	1-414-756-11	INDUCTOR 47uH		Q326	8-729-905-35	TRANSISTOR 2SC4081-R	
L308	1-416-345-11	INDUCTOR 22uH		Q701	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L309	1-416-345-11	INDUCTOR 22uH		Q702	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L311	1-416-345-11	INDUCTOR 22uH		Q703	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L312	1-414-757-11	INDUCTOR 100uH		Q704	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L313	1-416-345-11	INDUCTOR 22uH		Q708	8-729-047-12	TRANSISTOR DTC314TU-T106	
L314	1-416-345-11	INDUCTOR 22uH		Q709	8-729-047-12	TRANSISTOR DTC314TU-T106	
L350	1-412-963-11	INDUCTOR 100uH		Q710	8-729-905-35	TRANSISTOR 2SC4081-R	
* L701	1-428-936-21	COIL, LINE FILTER		Q711	8-729-026-52	TRANSISTOR 2SA1576A-T106-R	
* L702	1-428-936-21	COIL, LINE FILTER		Q712	8-729-047-12	TRANSISTOR DTC314TU-T106	
L703	1-416-107-21	COIL, COMMON MODE CHOKE		Q713	8-729-047-12	TRANSISTOR DTC314TU-T106	
* L704	1-428-936-21	COIL, LINE FILTER		Q714	8-729-905-35	TRANSISTOR 2SC4081-R	
L705	1-416-107-21	COIL, COMMON MODE CHOKE		Q715	8-729-905-35	TRANSISTOR 2SC4081-R	
L706	1-400-198-21	INDUCTOR, FERRITE BEAD (1005)		< RESISTOR >			
L707	1-400-198-21	INDUCTOR, FERRITE BEAD (1005)		R1	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
< TRANSISTOR >				R2	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
Q1	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R3	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
Q2	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R4	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
Q3	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R5	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
Q201	8-729-029-14	TRANSISTOR DTC144EUA-T106		R7	1-218-977-11	RES-CHIP 100K 5% 1/16W	
Q202	8-729-029-14	TRANSISTOR DTC144EUA-T106		R8	1-218-977-11	RES-CHIP 100K 5% 1/16W	
Q203	8-729-029-14	TRANSISTOR DTC144EUA-T106		R9	1-218-977-11	RES-CHIP 100K 5% 1/16W	
Q204	8-729-029-14	TRANSISTOR DTC144EUA-T106		R10	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
Q205	8-729-028-91	TRANSISTOR DTA144EUA-T106		R11	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
Q206	8-729-028-91	TRANSISTOR DTA144EUA-T106		R12	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
Q207	8-729-029-14	TRANSISTOR DTC144EUA-T106		R14	1-218-935-11	RES-CHIP 33 5% 1/16W	
Q208	8-729-109-44	FET 2SK94-X4		R16	1-218-961-11	RES-CHIP 4.7K 5% 1/16W	
Q209	8-729-905-35	TRANSISTOR 2SC4081-R		R17	1-218-935-11	RES-CHIP 33 5% 1/16W	
Q210	8-729-029-14	TRANSISTOR DTC144EUA-T106		R19	1-218-977-11	RES-CHIP 100K 5% 1/16W	
Q211	8-729-029-14	TRANSISTOR DTC144EUA-T106		R20	1-218-977-11	RES-CHIP 100K 5% 1/16W	
Q212	8-729-029-14	TRANSISTOR DTC144EUA-T106		R21	1-218-977-11	RES-CHIP 100K 5% 1/16W	
Q213	8-729-029-14	TRANSISTOR DTC144EUA-T106		R22	1-218-977-11	RES-CHIP 100K 5% 1/16W	
Q301	8-729-056-58	FET TPC6102 (TE85R)		R23	1-218-955-11	RES-CHIP 1.5K 5% 1/16W	
Q302	8-729-905-35	TRANSISTOR 2SC4081-R		R24	1-218-935-11	RES-CHIP 33 5% 1/16W	
Q303	8-729-026-52	TRANSISTOR 2SA1576A-T106-R		R25	1-218-935-11	RES-CHIP 33 5% 1/16W	
Q304	8-729-056-58	FET TPC6102 (TE85R)		R27	1-218-990-11	SHORT CHIP 0	
Q305	8-729-905-35	TRANSISTOR 2SC4081-R		R29	1-218-929-11	RES-CHIP 10 5% 1/16W	
Q306	8-729-026-52	TRANSISTOR 2SA1576A-T106-R		R30	1-218-929-11	RES-CHIP 10 5% 1/16W	
Q307	8-729-905-35	TRANSISTOR 2SC4081-R		R31	1-218-990-11	SHORT CHIP 0	
Q308	6-550-631-01	TRANSISTOR 2SA1797-T100-Q					

MV-900SDS

MAIN

Ref. No.	Part No.	Description			Remark
R32	1-218-946-11	RES-CHIP	270	5%	1/16W
R33	1-218-990-11	SHORT CHIP	0		
R34	1-218-935-11	RES-CHIP	33	5%	1/16W
R39	1-218-935-11	RES-CHIP	33	5%	1/16W
R40	1-218-935-11	RES-CHIP	33	5%	1/16W
R42	1-218-935-11	RES-CHIP	33	5%	1/16W
R43	1-218-935-11	RES-CHIP	33	5%	1/16W
R44	1-218-935-11	RES-CHIP	33	5%	1/16W
R46	1-218-990-11	SHORT CHIP	0		
R47	1-218-990-11	SHORT CHIP	0		
R48	1-218-965-11	RES-CHIP	10K	5%	1/16W
R49	1-218-990-11	SHORT CHIP	0		
R52	1-218-990-11	SHORT CHIP	0		
R54	1-218-990-11	SHORT CHIP	0		
R57	1-218-990-11	SHORT CHIP	0		
R61	1-218-953-11	RES-CHIP	1K	5%	1/16W
R62	1-218-953-11	RES-CHIP	1K	5%	1/16W
R66	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R68	1-218-965-11	RES-CHIP	10K	5%	1/16W
R69	1-208-860-81	METAL CHIP	75	0.5%	1/16W
R70	1-208-860-81	METAL CHIP	75	0.5%	1/16W
R71	1-208-860-81	METAL CHIP	75	0.5%	1/16W
R72	1-208-860-81	METAL CHIP	75	0.5%	1/16W
R73	1-216-803-11	METAL CHIP	33	5%	1/10W
R74	1-216-803-11	METAL CHIP	33	5%	1/10W
R75	1-216-803-11	METAL CHIP	33	5%	1/10W
R76	1-216-803-11	METAL CHIP	33	5%	1/10W
R77	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R78	1-218-971-11	RES-CHIP	33K	5%	1/16W
R80	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R81	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R82	1-216-845-11	METAL CHIP	100K	5%	1/10W
R83	1-216-839-11	METAL CHIP	33K	5%	1/10W
R84	1-216-839-11	METAL CHIP	33K	5%	1/10W
R85	1-216-849-11	METAL CHIP	220K	5%	1/10W
R86	1-216-846-11	METAL CHIP	120K	5%	1/10W
R87	1-216-805-11	METAL CHIP	47	5%	1/10W
R88	1-216-849-11	METAL CHIP	220K	5%	1/10W
R90	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R103	1-218-665-11	METAL CHIP	75	0.5%	1/10W
R104	1-218-665-11	METAL CHIP	75	0.5%	1/10W
R105	1-218-665-11	METAL CHIP	75	0.5%	1/10W
R106	1-218-665-11	METAL CHIP	75	0.5%	1/10W
R107	1-218-665-11	METAL CHIP	75	0.5%	1/10W
R108	1-218-665-11	METAL CHIP	75	0.5%	1/10W
R109	1-216-864-11	SHORT CHIP	0		
R110	1-216-864-11	SHORT CHIP	0		
R111	1-216-864-11	SHORT CHIP	0		
R201	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R202	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R203	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R204	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R205	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R206	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R207	1-216-833-11	METAL CHIP	10K	5%	1/10W
R208	1-216-833-11	METAL CHIP	10K	5%	1/10W
R209	1-218-722-11	METAL CHIP	18K	0.5%	1/10W
R210	1-218-700-11	METAL CHIP	2.2K	0.5%	1/10W

Ref. No.	Part No.	Description			Remark
R211	1-216-833-11	METAL CHIP	10K	5%	1/10W
R212	1-216-833-11	METAL CHIP	10K	5%	1/10W
R213	1-216-813-11	METAL CHIP	220	5%	1/10W
R214	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R215	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R216	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R217	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R218	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R219	1-216-833-11	METAL CHIP	10K	5%	1/10W
R220	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R221	1-216-811-11	METAL CHIP	150	5%	1/10W
R223	1-216-809-11	METAL CHIP	100	5%	1/10W
R224	1-216-809-11	METAL CHIP	100	5%	1/10W
R225	1-216-809-11	METAL CHIP	100	5%	1/10W
R226	1-216-809-11	METAL CHIP	100	5%	1/10W
R227	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R228	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R229	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R230	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R231	1-216-797-11	METAL CHIP	10	5%	1/10W
R232	1-216-803-11	METAL CHIP	33	5%	1/10W
R301	1-220-277-11	RES-CHIP	2.2K	5%	1/4W
R302	1-216-813-11	METAL CHIP	220	5%	1/10W
R303	1-216-813-11	METAL CHIP	220	5%	1/10W
R304	1-216-805-11	METAL CHIP	47	5%	1/10W
R305	1-218-720-11	METAL CHIP	15K	0.5%	1/10W
R306	1-218-738-11	METAL CHIP	82K	0.5%	1/10W
R307	1-220-277-11	RES-CHIP	2.2K	5%	1/4W
R308	1-216-833-11	METAL CHIP	10K	5%	1/10W
R309	1-216-813-11	METAL CHIP	220	5%	1/10W
R310	1-216-813-11	METAL CHIP	220	5%	1/10W
R311	1-216-805-11	METAL CHIP	47	5%	1/10W
R312	1-218-292-11	METAL CHIP	20K	5%	1/10W
R313	1-218-736-11	METAL CHIP	68K	0.5%	1/10W
R314	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R315	1-216-840-11	METAL CHIP	39K	5%	1/10W
R316	1-216-837-11	METAL CHIP	22K	5%	1/10W
R317	1-216-840-11	METAL CHIP	39K	5%	1/10W
R318	1-216-838-11	METAL CHIP	27K	5%	1/10W
R319	1-216-836-11	METAL CHIP	18K	5%	1/10W
R320	1-216-841-11	METAL CHIP	47K	5%	1/10W
R321	1-216-840-11	METAL CHIP	39K	5%	1/10W
R322	1-216-853-11	METAL CHIP	470K	5%	1/10W
R323	1-216-836-11	METAL CHIP	18K	5%	1/10W
R324	1-216-833-11	METAL CHIP	10K	5%	1/10W
R325	1-216-840-11	METAL CHIP	39K	5%	1/10W
R326	1-216-840-11	METAL CHIP	39K	5%	1/10W
R327	1-216-841-11	METAL CHIP	47K	5%	1/10W
R328	1-216-841-11	METAL CHIP	47K	5%	1/10W
R329	1-216-837-11	METAL CHIP	22K	5%	1/10W
R330	1-216-033-00	RES-CHIP	220	5%	1/10W
R331	1-216-841-11	METAL CHIP	47K	5%	1/10W
R332	1-216-821-11	METAL CHIP	1K	5%	1/10W
R333	1-216-821-11	METAL CHIP	1K	5%	1/10W
R334	1-216-821-11	METAL CHIP	1K	5%	1/10W
R335	1-216-833-11	METAL CHIP	10K	5%	1/10W
R336	1-216-841-11	METAL CHIP	47K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R337	1-216-833-11	METAL CHIP	10K	5%	1/10W	R724	1-216-817-11	METAL CHIP	470	5%	1/10W
R338	1-216-837-11	METAL CHIP	22K	5%	1/10W	R725	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R339	1-216-214-00	RES-CHIP	4.7K	5%	1/8W						
R340	1-216-833-11	METAL CHIP	10K	5%	1/10W	R726	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R341	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R727	1-216-864-11	SHORT CHIP	0		
						R730	1-216-864-11	SHORT CHIP	0		
R342	1-216-821-11	METAL CHIP	1K	5%	1/10W	R731	1-216-864-11	SHORT CHIP	0		
R343	1-216-833-11	METAL CHIP	10K	5%	1/10W	R734	1-216-841-11	METAL CHIP	47K	5%	1/10W
R344	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R345	1-216-833-11	METAL CHIP	10K	5%	1/10W	R735	1-216-841-11	METAL CHIP	47K	5%	1/10W
R351	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R736	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
						R737	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R352	1-216-837-11	METAL CHIP	22K	5%	1/10W	R738	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R353	1-216-837-11	METAL CHIP	22K	5%	1/10W	R739	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R354	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R355	1-216-835-11	METAL CHIP	15K	5%	1/10W	R740	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R356	1-216-835-11	METAL CHIP	15K	5%	1/10W	R741	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
						R742	1-218-740-11	METAL CHIP	100K	0.5%	1/10W
R357	1-216-296-11	SHORT CHIP	0			R743	1-218-740-11	METAL CHIP	100K	0.5%	1/10W
R358	1-216-864-11	SHORT CHIP	0			R744	1-218-740-11	METAL CHIP	100K	0.5%	1/10W
R359	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R360	1-216-845-11	METAL CHIP	100K	5%	1/10W	R745	1-218-740-11	METAL CHIP	100K	0.5%	1/10W
R361	1-216-845-11	METAL CHIP	100K	5%	1/10W	R746	1-218-873-11	METAL CHIP	12K	0.5%	1/10W
						R747	1-218-873-11	METAL CHIP	12K	0.5%	1/10W
R362	1-216-833-11	METAL CHIP	10K	5%	1/10W	R748	1-218-873-11	METAL CHIP	12K	0.5%	1/10W
R364	1-216-833-11	METAL CHIP	10K	5%	1/10W	R749	1-218-873-11	METAL CHIP	12K	0.5%	1/10W
R365	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R366	1-216-837-11	METAL CHIP	22K	5%	1/10W	R750	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R367	1-216-841-11	METAL CHIP	47K	5%	1/10W	R751	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
						R752	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R368	1-218-722-11	METAL CHIP	18K	0.5%	1/10W	R753	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R369	1-218-716-11	METAL CHIP	10K	0.5%	1/10W	R754	1-216-821-11	METAL CHIP	1K	5%	1/10W
R370	1-218-889-11	METAL CHIP	56K	0.5%	1/10W						
R371	1-218-879-11	METAL CHIP	22K	0.5%	1/10W	R755	1-216-821-11	METAL CHIP	1K	5%	1/10W
R372	1-218-694-11	METAL CHIP	1.2K	0.5%	1/10W	R761	1-216-797-11	METAL CHIP	10	5%	1/10W
						R762	1-218-708-11	METAL CHIP	4.7K	0.5%	1/10W
R377	1-216-811-11	METAL CHIP	150	5%	1/10W	R763	1-218-708-11	METAL CHIP	4.7K	0.5%	1/10W
R378	1-216-841-11	METAL CHIP	47K	5%	1/10W	R764	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R379	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R380	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R765	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R381	1-216-837-11	METAL CHIP	22K	5%	1/10W	R766	1-216-809-11	METAL CHIP	100	5%	1/10W
						R767	1-216-809-11	METAL CHIP	100	5%	1/10W
R383	1-216-296-11	SHORT CHIP	0			R768	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R384	1-216-847-11	METAL CHIP	150K	5%	1/10W	R769	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R385	1-216-847-11	METAL CHIP	150K	5%	1/10W						
R386	1-216-837-11	METAL CHIP	22K	5%	1/10W	R770	1-216-821-11	METAL CHIP	1K	5%	1/10W
R703	1-216-837-11	METAL CHIP	22K	5%	1/10W	R771	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R772	1-216-845-11	METAL CHIP	100K	5%	1/10W
R704	1-216-837-11	METAL CHIP	22K	5%	1/10W	R773	1-216-845-11	METAL CHIP	100K	5%	1/10W
R705	1-216-841-11	METAL CHIP	47K	5%	1/10W	R774	1-216-833-11	METAL CHIP	10K	5%	1/10W
R706	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R707	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R775	1-216-833-11	METAL CHIP	10K	5%	1/10W
R708	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R776	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R777	1-216-833-11	METAL CHIP	10K	5%	1/10W
R709	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R778	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R710	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R779	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R711	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R712	1-216-837-11	METAL CHIP	22K	5%	1/10W	R781	1-216-833-11	METAL CHIP	10K	5%	1/10W
R713	1-216-821-11	METAL CHIP	1K	5%	1/10W	R782	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R783	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R714	1-216-821-11	METAL CHIP	1K	5%	1/10W	R784	1-216-821-11	METAL CHIP	1K	5%	1/10W
R715	1-216-864-11	SHORT CHIP	0			R785	1-216-833-11	METAL CHIP	10K	5%	1/10W
R716	1-216-864-11	SHORT CHIP	0								
R719	1-216-864-11	SHORT CHIP	0			R786	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R720	1-216-864-11	SHORT CHIP	0			R787	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
						R788	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R721	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R789	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R722	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R790	1-218-712-11	METAL CHIP	6.8K	0.5%	1/10W
R723	1-216-817-11	METAL CHIP	470	5%	1/10W						

Ref. No.	Part No.	Description	Remark					
R791	1-218-712-11	METAL CHIP	6.8K	0.5%	1/10W			
R792	1-216-809-11	METAL CHIP	100	5%	1/10W			
R793	1-218-873-11	METAL CHIP	12K	0.5%	1/10W			
R794	1-218-873-11	METAL CHIP	12K	0.5%	1/10W			
R795	1-216-809-11	METAL CHIP	100	5%	1/10W			
R796	1-216-825-11	METAL CHIP	2.2K	5%	1/10W			
R797	1-216-825-11	METAL CHIP	2.2K	5%	1/10W			
R798	1-216-837-11	METAL CHIP	22K	5%	1/10W			
R799	1-216-837-11	METAL CHIP	22K	5%	1/10W			
R1701	1-216-809-11	METAL CHIP	100	5%	1/10W			
R1702	1-216-809-11	METAL CHIP	100	5%	1/10W			
R1709	1-216-841-11	METAL CHIP	47K	5%	1/10W			
R1710	1-216-841-11	METAL CHIP	47K	5%	1/10W			
R1733	1-216-864-11	SHORT CHIP	0					
R1734	1-216-864-11	SHORT CHIP	0					
R1765	1-216-833-11	METAL CHIP	10K	5%	1/10W			
R1766	1-216-833-11	METAL CHIP	10K	5%	1/10W			
R1767	1-216-833-11	METAL CHIP	10K	5%	1/10W			
R1768	1-216-829-11	METAL CHIP	4.7K	5%	1/10W			
R1769	1-216-819-11	METAL CHIP	680	5%	1/10W			
< COMPOSITION CIRCUIT BLOCK >								
RB1	1-234-369-21	RES, NETWORK 10X4 (1005)						
RB2	1-234-369-21	RES, NETWORK 10X4 (1005)						
RB3	1-234-369-21	RES, NETWORK 10X4 (1005)						
RB4	1-242-963-21	RES, NETWORK 33X4 (1005)						
RB5	1-234-369-21	RES, NETWORK 10X4 (1005)						
RB6	1-234-369-21	RES, NETWORK 10X4 (1005)						
RB7	1-234-369-21	RES, NETWORK 10X4 (1005)						
RB8	1-234-369-21	RES, NETWORK 10X4 (1005)						
RB10	1-242-963-21	RES, NETWORK 33X4 (1005)						
RB11	1-242-963-21	RES, NETWORK 33X4 (1005)						
RB12	1-242-963-21	RES, NETWORK 33X4 (1005)						
RB13	1-242-963-21	RES, NETWORK 33X4 (1005)						
RB14	1-242-963-21	RES, NETWORK 33X4 (1005)						
RB15	1-242-963-21	RES, NETWORK 33X4 (1005)						
RB16	1-242-963-21	RES, NETWORK 33X4 (1005)						
RB17	1-234-369-21	RES, NETWORK 10X4 (1005)						
RB18	1-234-369-21	RES, NETWORK 10X4 (1005)						
RB19	1-234-369-21	RES, NETWORK 10X4 (1005)						
RB20	1-234-369-21	RES, NETWORK 10X4 (1005)						
RB21	1-234-369-21	RES, NETWORK 10X4 (1005)						
RB22	1-234-369-21	RES, NETWORK 10X4 (1005)						
RB23	1-234-369-21	RES, NETWORK 10X4 (1005)						
RB24	1-234-369-21	RES, NETWORK 10X4 (1005)						
RB25	1-234-369-21	RES, NETWORK 10X4 (1005)						
< SWITCH >								
S301	1-692-098-11	SWITCH, SLIDE (POWER SELECT)						
< THERMISTOR >								
TH301	1-804-777-21	THERMISTOR, POSITIVE						
< VARISTOR >								
VDR301	1-801-866-11	VARISTOR ERZV14D220						

Ref. No.	Part No.	Description	Remark
< VIBRATOR >			
X1	1-795-993-21	VIBRATOR, CRYSTAL (SMD) (27MHz)	
X201	1-813-035-11	VIBRATOR, CRYSTAL (7.6MHz)	

SW BOARD			

< SWITCH >			
S908	1-529-565-61	SWITCH, PUSH (1 KEY)	(PANEL CLOSE DETECT)

MISCELLANEOUS			

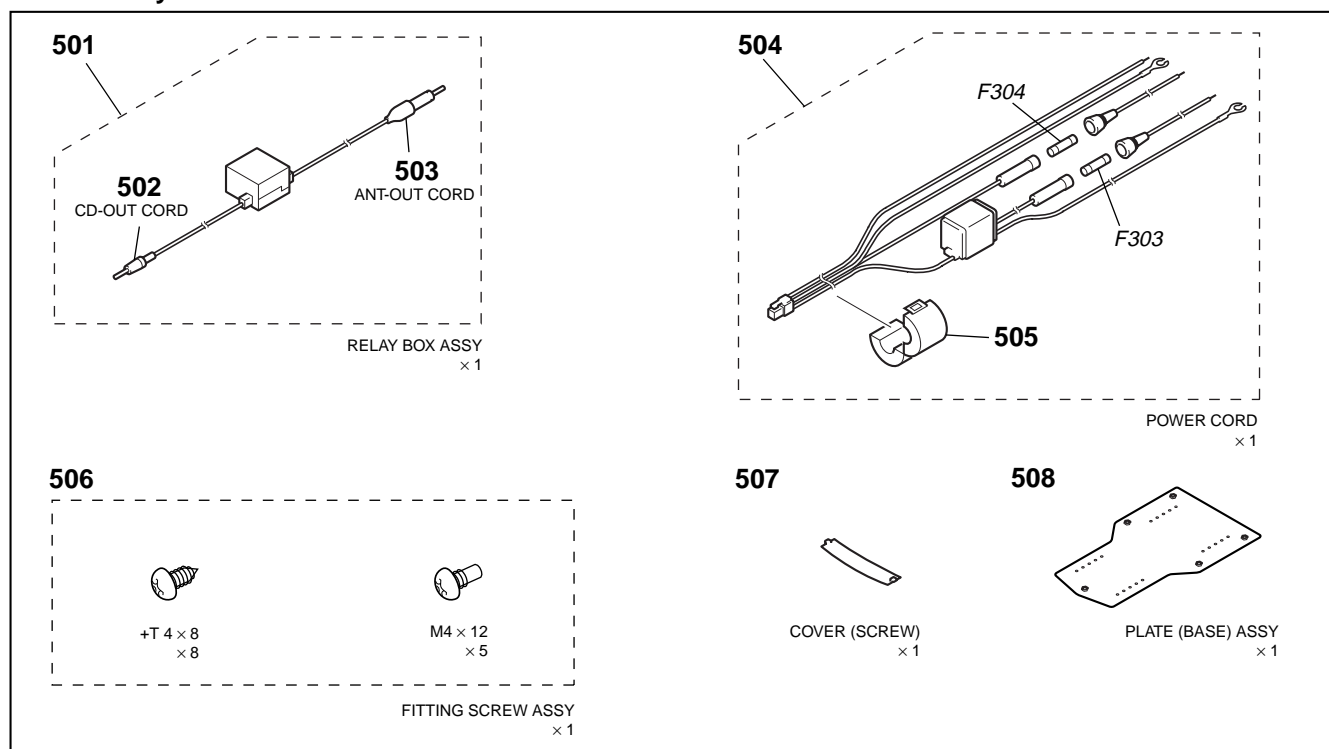
2	1-829-384-11	CORD, CONNECTION (POWER)	
3	1-963-068-11	CORD (WITH CONNECTOR) (ANT-OUT)	(for RELAY BOX ASSY)
4	1-963-067-11	CORD (WITH CONNECTOR) (CD-OUT)	(for RELAY BOX ASSY)
5	A-1065-952-A	BOX ASSY, RELAY	
9	1-469-778-11	CLAMP, FERRITE	
57	1-863-496-11	CABLE, FLEXIBLE FLAT (50 CORE)	
* 62	1-500-544-11	BEAD, FERRITE	
66	1-500-459-11	FILTER, CLAMP (FERRITE CORE)	
68	1-965-038-11	CORD ASSY, CONNECTOR WITH	
106	1-817-116-11	CONNECTOR, MEMORY STICK	
107	1-863-494-11	PWB, FLEXIBLE (MS)	
108	1-863-495-11	CABLE, FLEXIBLE FLAT (30 CORE)	
113	1-500-657-11	CORE, FERRIET	
F303	1-533-453-11	FUSE, GLASS TUBE (DIA.5) (5A/125V)	
F304	1-533-465-11	FUSE, GLASS TUBE (DIA.5) (1A/250V)	
LCD1	1-805-652-11	DISPLAY PANEL, LIQUID CRYSTAL	
M301	1-763-815-21	FAN, DC (25X25)	
SP1	1-825-836-11	SPEAKER (3.3 cm) (L-ch)	
SP2	1-825-836-11	SPEAKER (3.3 cm) (R-ch)	

ACCESSORIES			

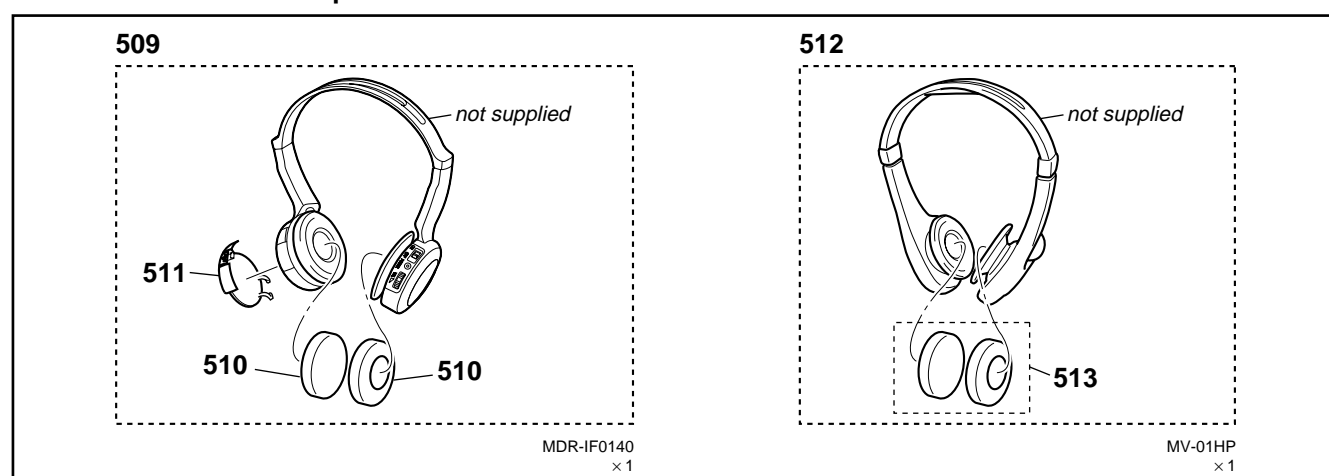
1-478-692-11 REMOTE COMMANDER (RM-X137)			
2-159-612-12 MANUAL, INSTRUCTION (ENGLISH, FRENCH)			
3-258-687-01 LID, BATTERY CASE (for RM-X137)			

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
PARTS FOR INSTALLATION AND CONNECTIONS *****				507	3-267-637-01	COVER (SCREW)	
501	A-1065-952-A	BOX ASSY, RELAY		508	X-3385-232-1	PLATE (BASE) SUB ASSY	
502	1-963-067-11	CORD (WITH CONNECTOR) (CD-OUT) (for RELAY BOX ASSY)		509	8-954-200-90	HEADPHONE (MDR-IF0140 SET)	
503	1-963-068-11	CORD (WITH CONNECTOR) (ANT-OUT) (for RELAY BOX ASSY)		510	3-246-367-01	PAD, EAR (for MDR-IF0140)	
504	1-829-384-12	CORD, CONNECTION (POWER)		511	X-3384-723-1	LID SUB ASSY (0140), BATTERY (for MDR-IF0104)	
505	1-469-778-11	CLAMP, FERRITE		512	1-542-622-12	HEADPHONE, IR WIRELESS (MV-01HP)	
506	X-2022-306-1	SCREW ASSY, FITTING (for PLATE (BASE) SUB ASSY)		513	2-645-852-01	EAR PAD (2 pieces set) (for MV-01HP)	
				F303	1-533-453-11	FUSE (GLASS TUBE) (5A/125V)	
				F304	1-533-465-11	FUSE (GLASS TUBE) (1A/250V)	

for DVD Player



for Cordless Stereo Headphones



Note: There are two types of Cordless Stereo Headphones. For further information, see "NOTE WHEN REPLACING THE CORDLESS STEREO HEADPHONES" (page 3) of the Servicing Notes.

MEMO

MV-900SDS

SONY®

US Model

SERVICE MANUAL

Ver 1.1 2004.09

SUPPLEMENT-1

Subject: Addition of information of the DVD unit

(ENG-04004)

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2. ASSEMBLY

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4. EXPLODED VIEW

DVD Mechanism Deck Section	21
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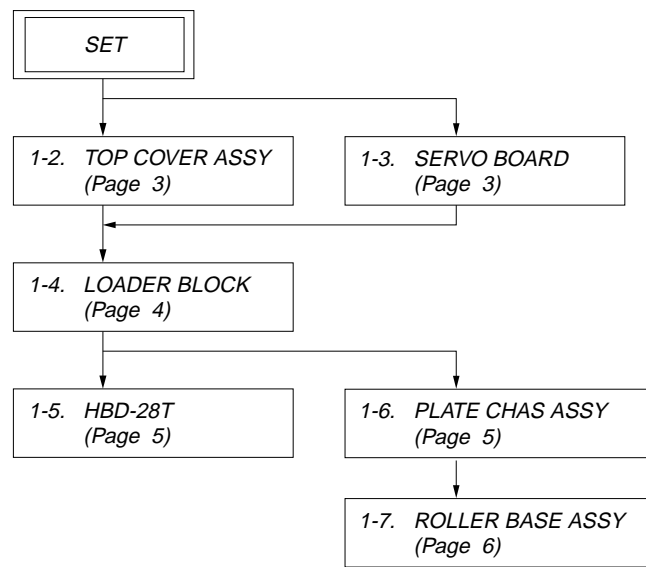
5. ELECTRICAL PARTS LIST

	22
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1. DISASSEMBLY

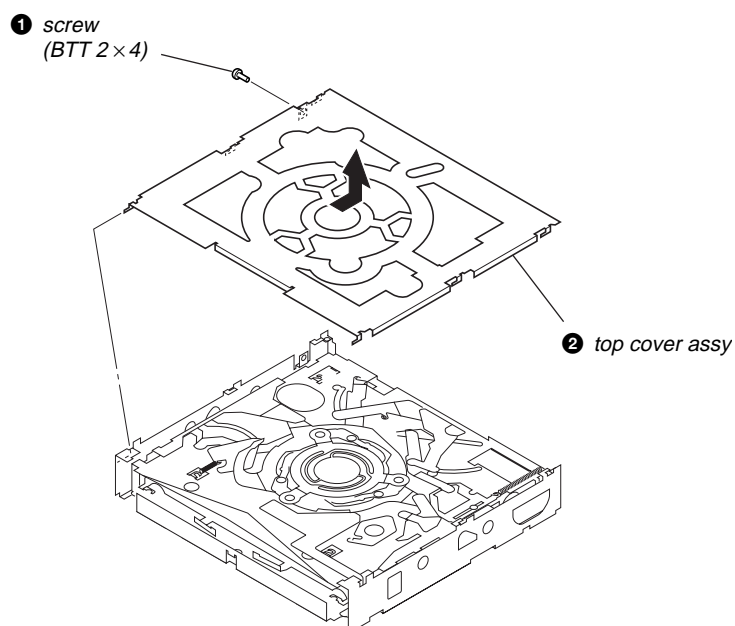
- This set can be disassembled in the order shown below.

1-1. DISASSEMBLY FLOW



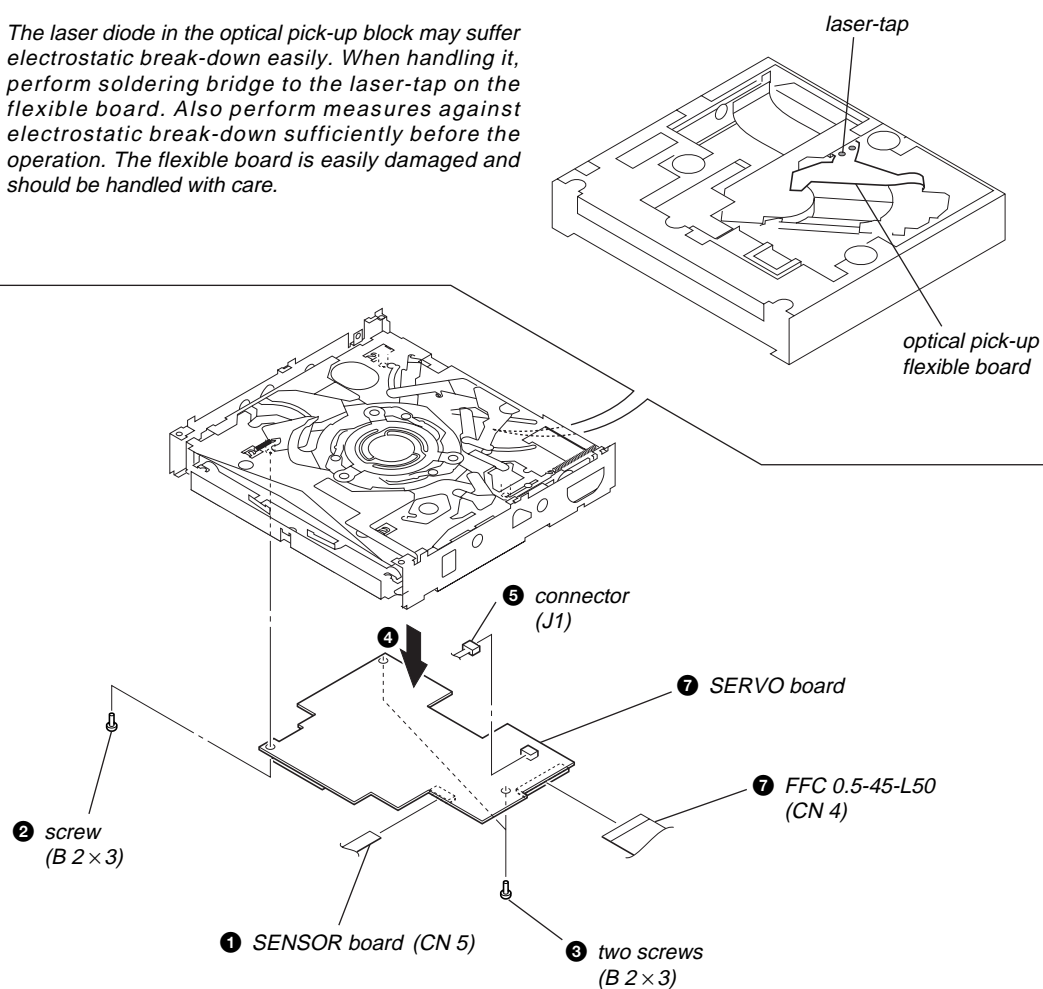
Note: Follow the disassembly procedure in the numerical order given.

1-2. TOP COVER ASSY



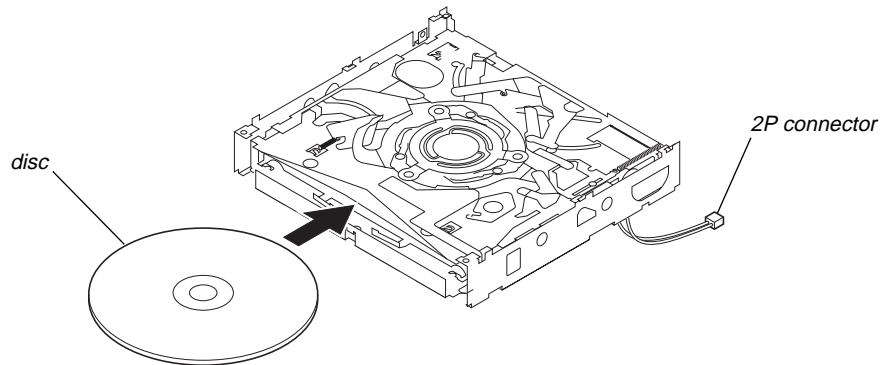
1-3. SERVO BOARD

- ⑥ The laser diode in the optical pick-up block may suffer electrostatic break-down easily. When handling it, perform soldering bridge to the laser-tap on the flexible board. Also perform measures against electrostatic break-down sufficiently before the operation. The flexible board is easily damaged and should be handled with care.



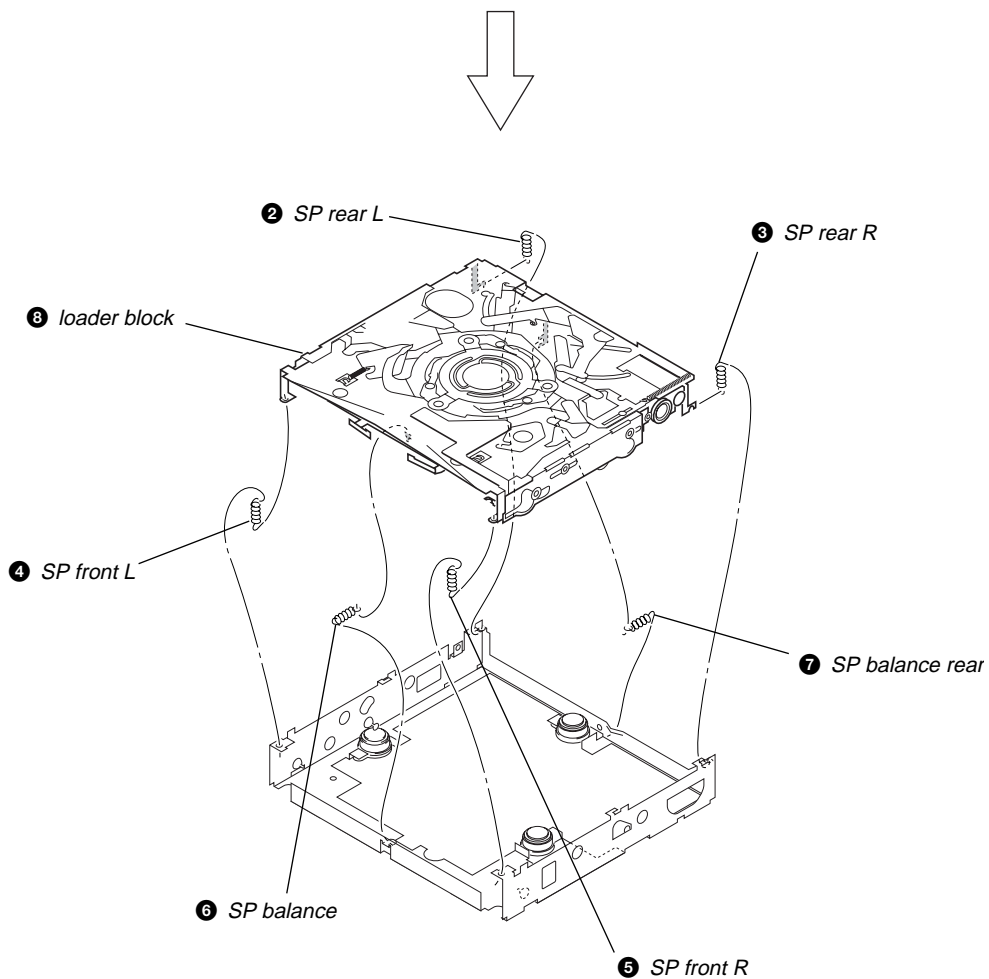
1-4. LOADER BLOCK

- ❶ Apply 4.5V loading voltage to the 2P connector to insert a disc.



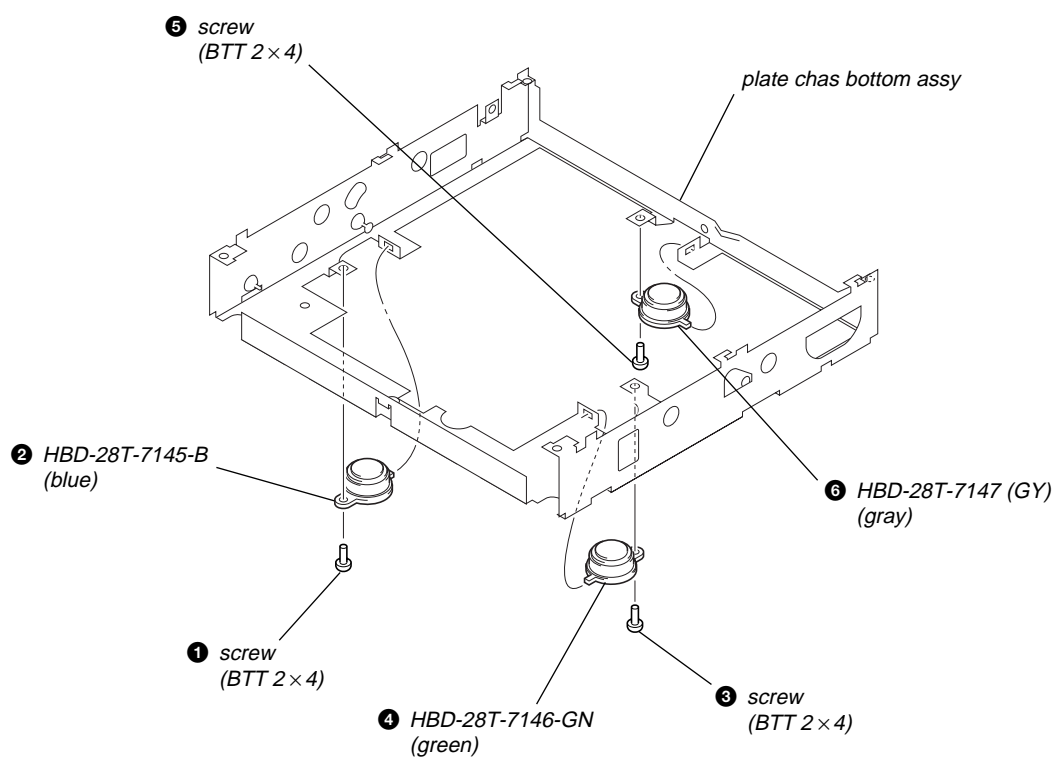
Note 1: With no disc inserted, the loader and the bottom chassis cannot be disassembled.

Note 2: Don't turn over or swing the set with a disc inserted.

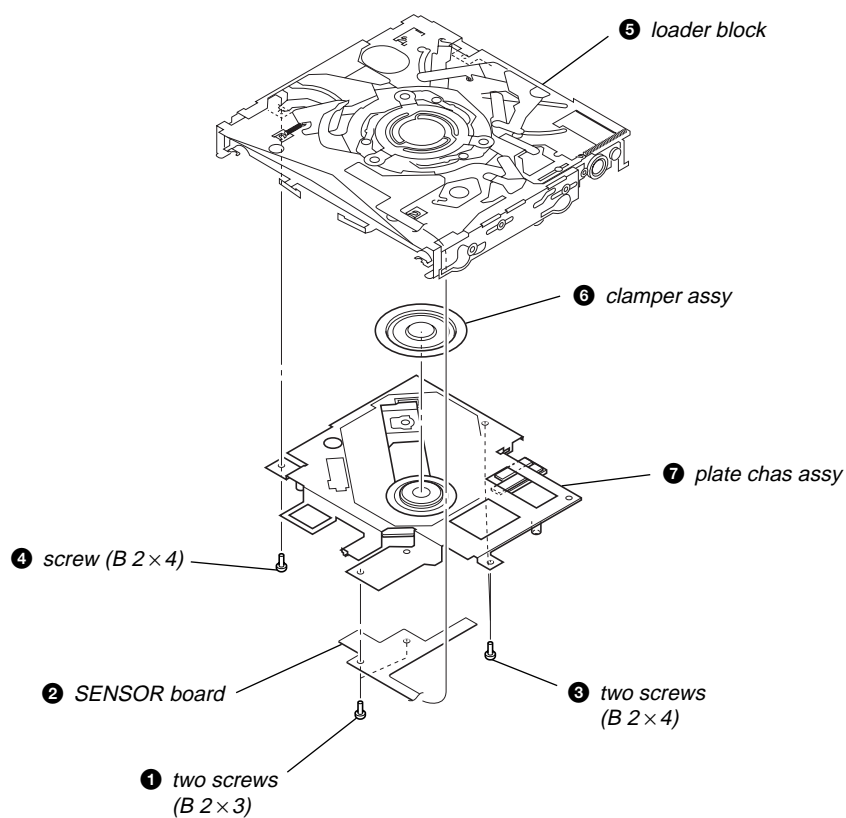


- ❹ Apply 4.5V loading voltage to the 2P connector to eject a disc.

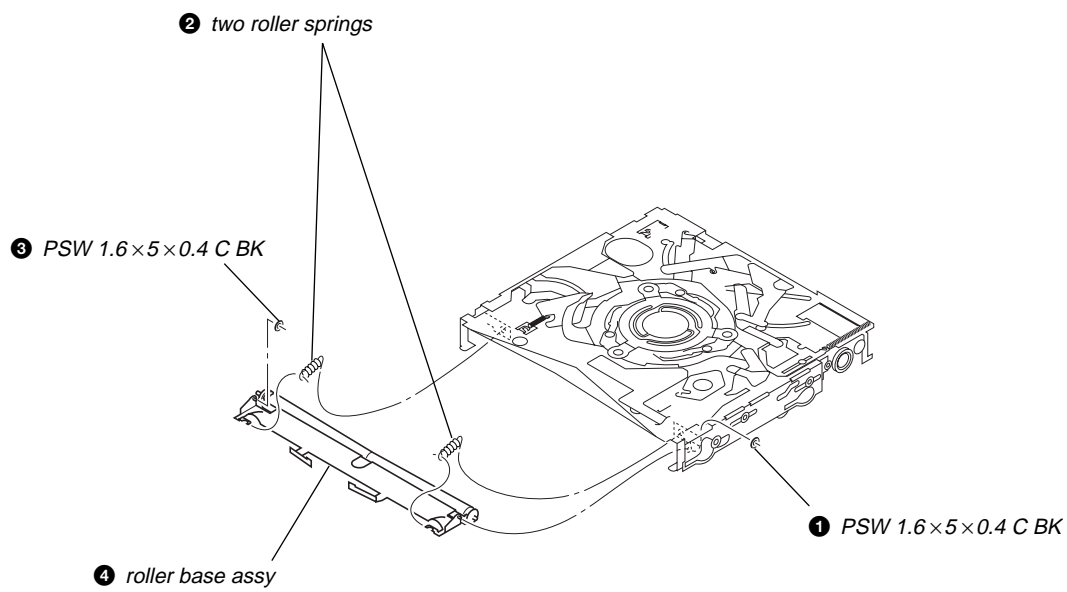
1-5. HBD-28T



1-6. PLATE CHAS ASSY



1-7. ROLLER BASE ASSY

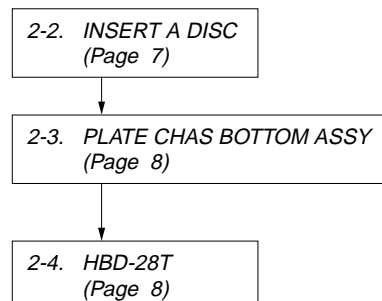


Note: Don't touch the roller by hand. Otherwise, the disc retraction force will vary.

2. ASSEMBLY

- This set can be assembled in the order shown below.

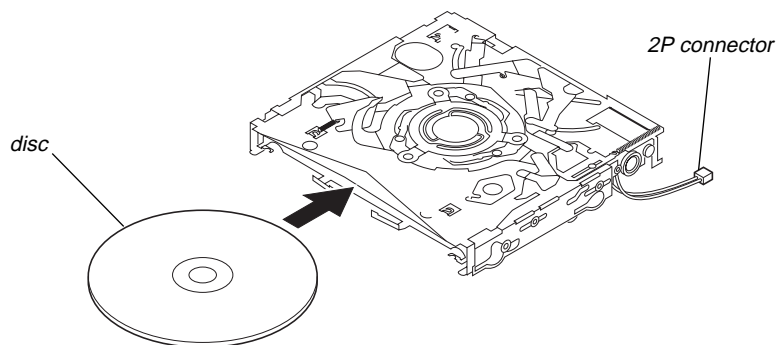
2-1. ASSEMBLY FLOW



Note: Follow the assembly procedure in the numerical order given.

2-2. INSERT A DISC

- ① Apply 4.5V loading voltage to the 2P connector to insert a disc.

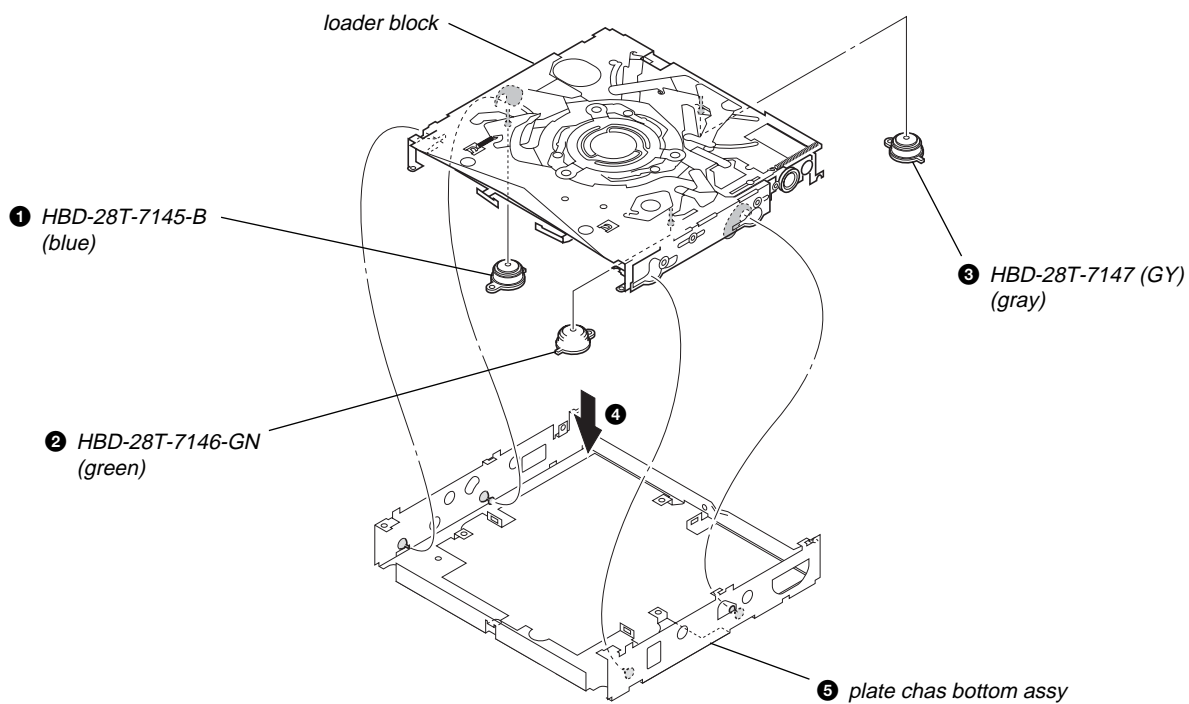


Note 1: With no disc inserted, the loader and the bottom chassis cannot be assembled.

Note 2: Don't turn over or swing the set with a disc inserted.

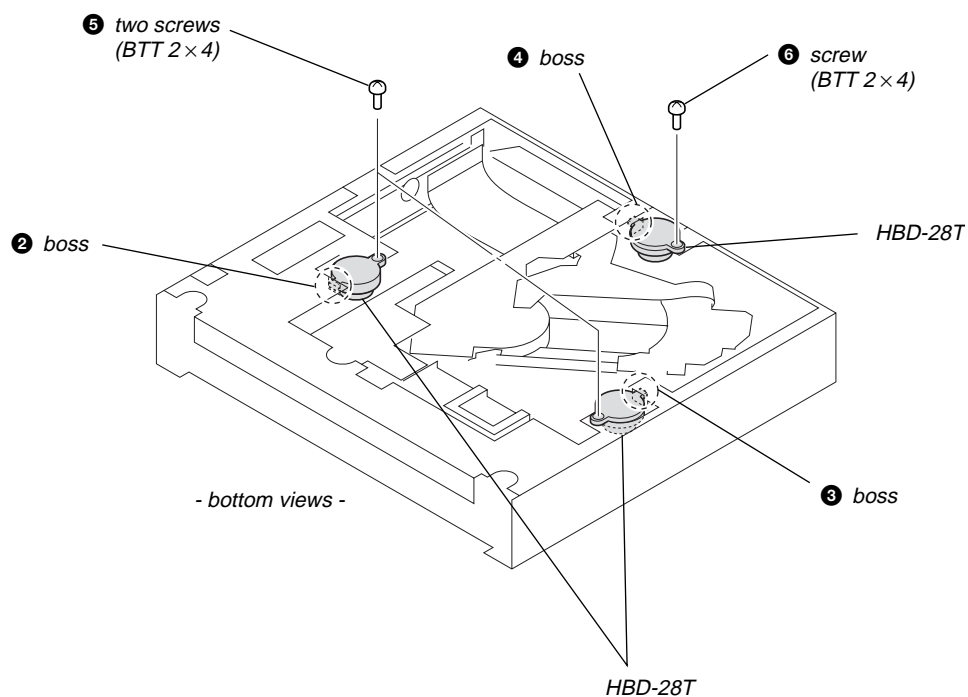
2-3. PLATE CHAS BOTTOM ASSY

Note: When the HBD-28T removed, reassemble the HBD-28T surely using IPA (isopropyl alcohol).



2-4. HBD-28T

① Apply 4.5V loading voltage to the 2P connector to eject a disc.



3-1. BLOCK DIAGRAM – SERVO Section –



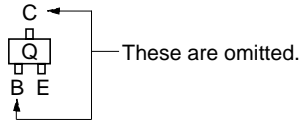
• Note for Printed Wiring Boards and Schematic Diagrams

Note on Printed Wiring Boards:

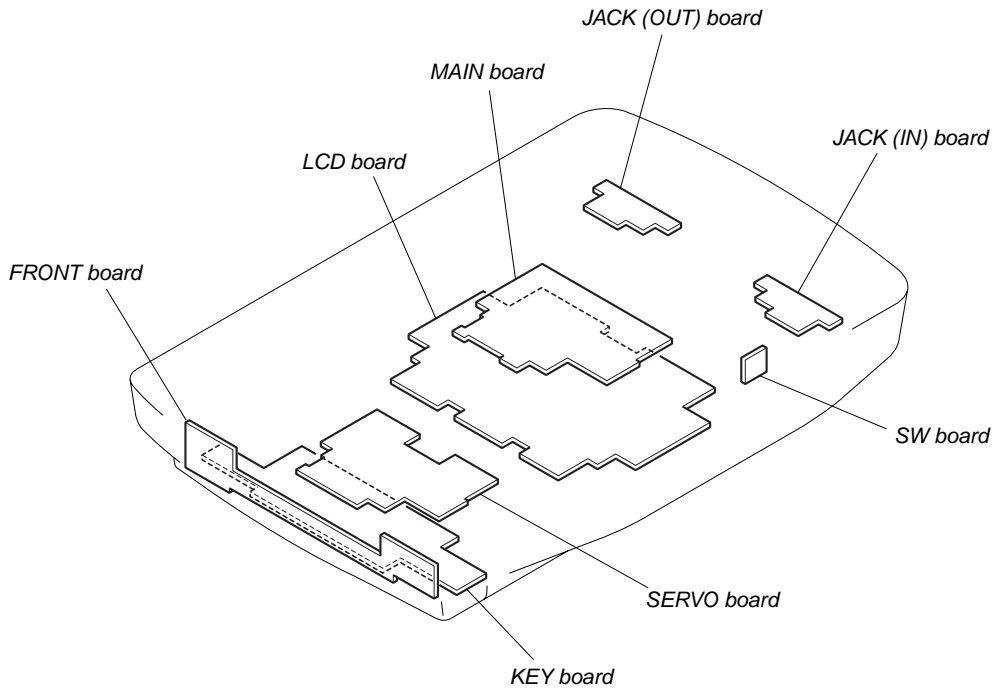
- : parts extracted from the conductor side.
- : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

Caution:
Pattern face side: Parts on the pattern face side seen from
(Side B)
Parts face side: Parts on the parts face side seen from
(Side A)

- SERVO board is multi-layer printed board.
However, the patterns of intermediate-layer have not been included in diagram.
- Indicaiton of transistor

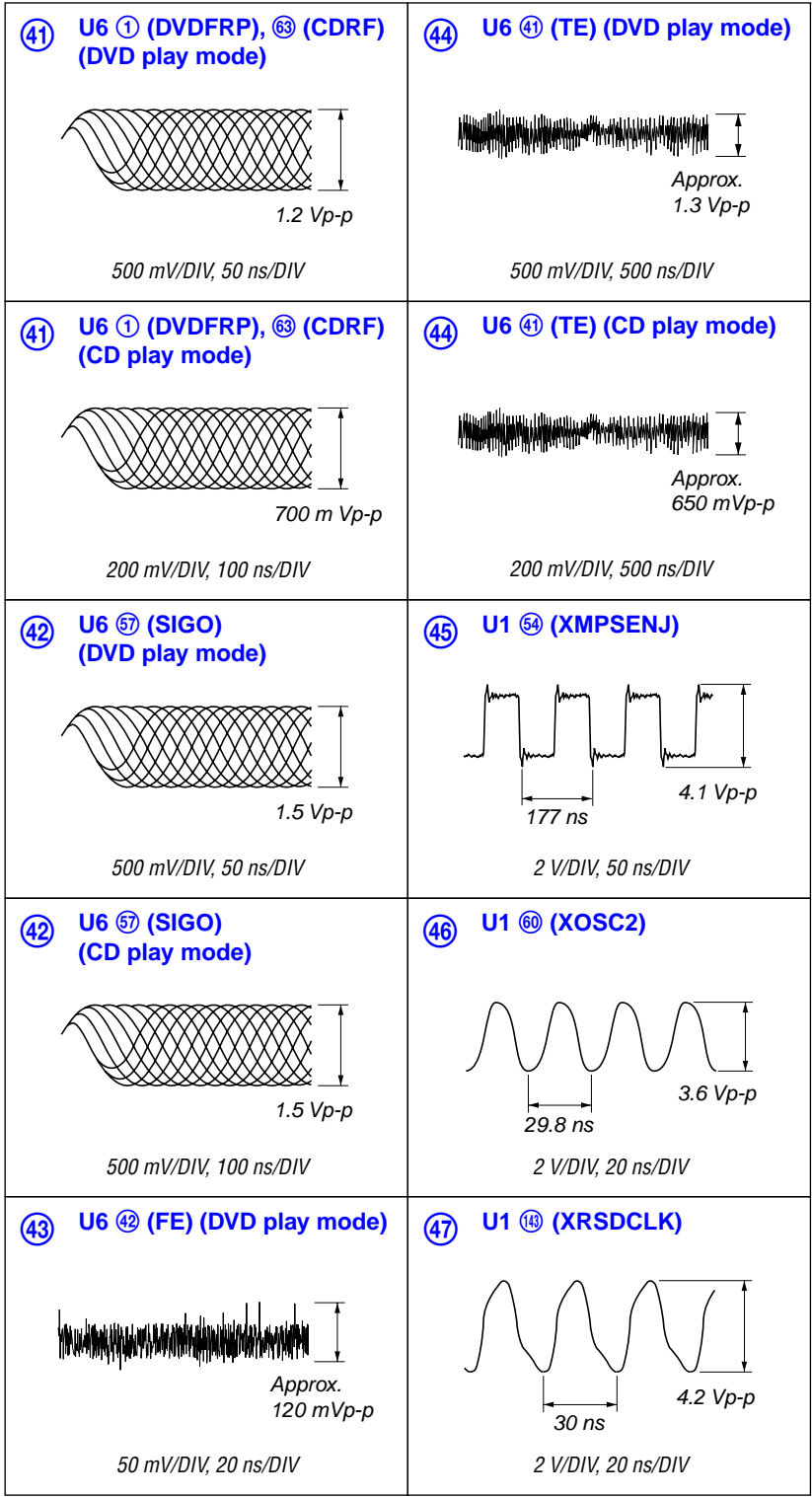


• Circuit Boards Location



• Waveforms

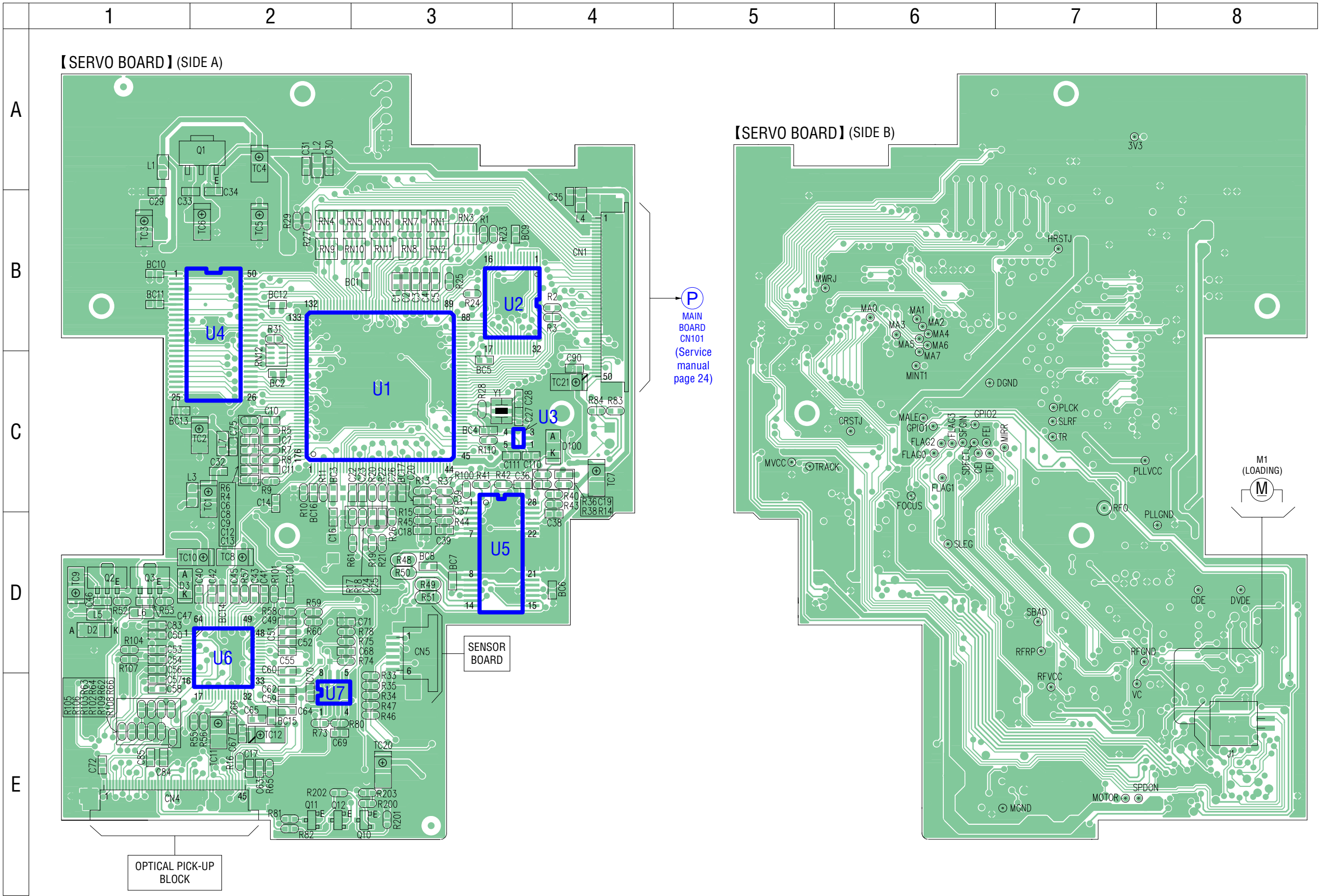
– SERVO Board –



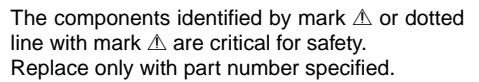
3-2. PRINTED WIRING BOARD – SERVO Board – • See page 10 for Circuit Boards Location.

• Semiconductor Location

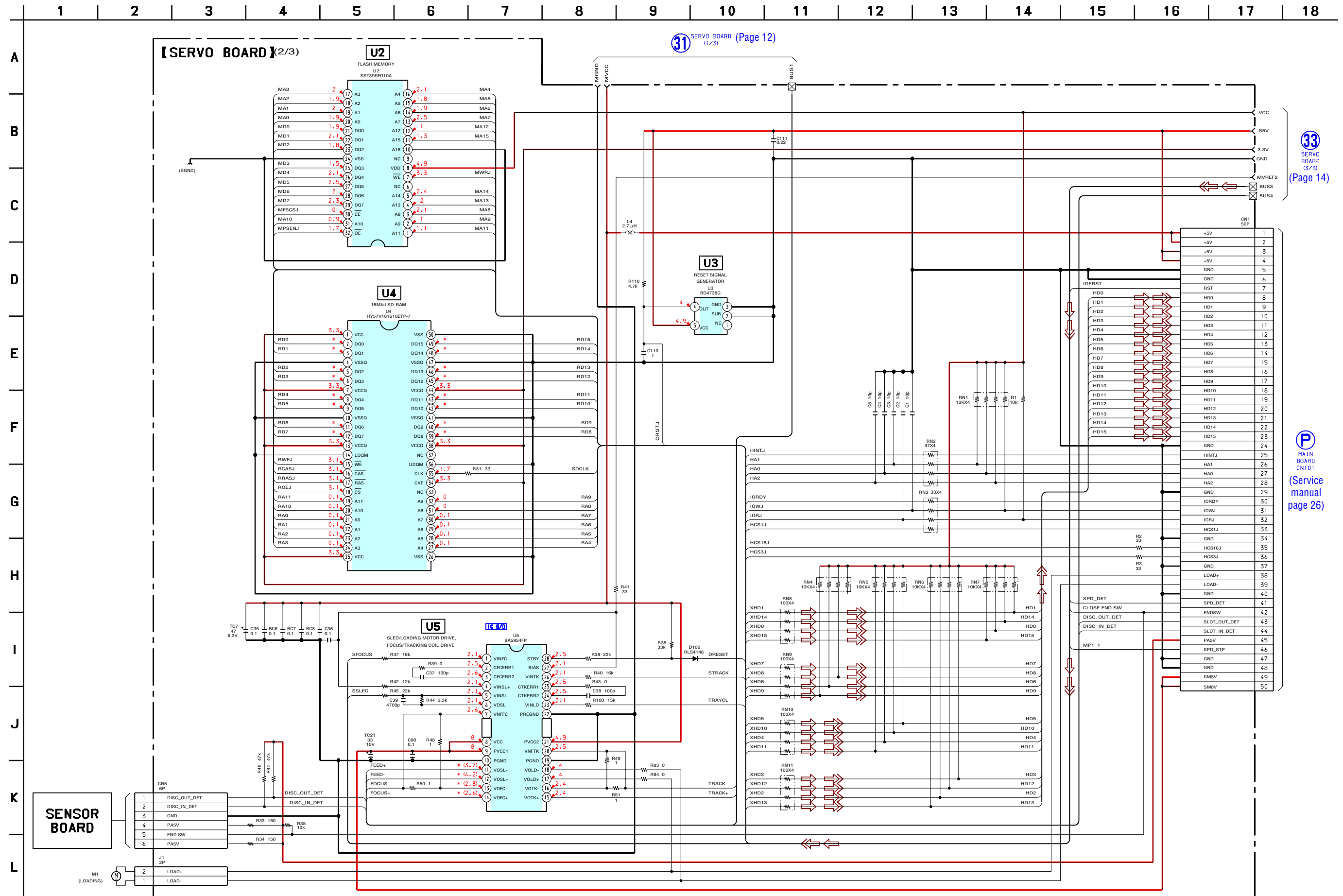
Ref. No.	Location
D2	D-1
D3	D-1
D100	C-4
Q1	A-2
Q2	D-1
Q3	D-1
Q10	E-3
Q11	E-2
Q12	E-2
U1	C-3
U2	B-4
U3	C-4
U4	B-4
U5	D-3
U6	D-2
U7	E-2



12 12



3-4. SCHEMATIC DIAGRAM – SERVO Board (2/3) – • See page 15 for IC Block Diagrams.

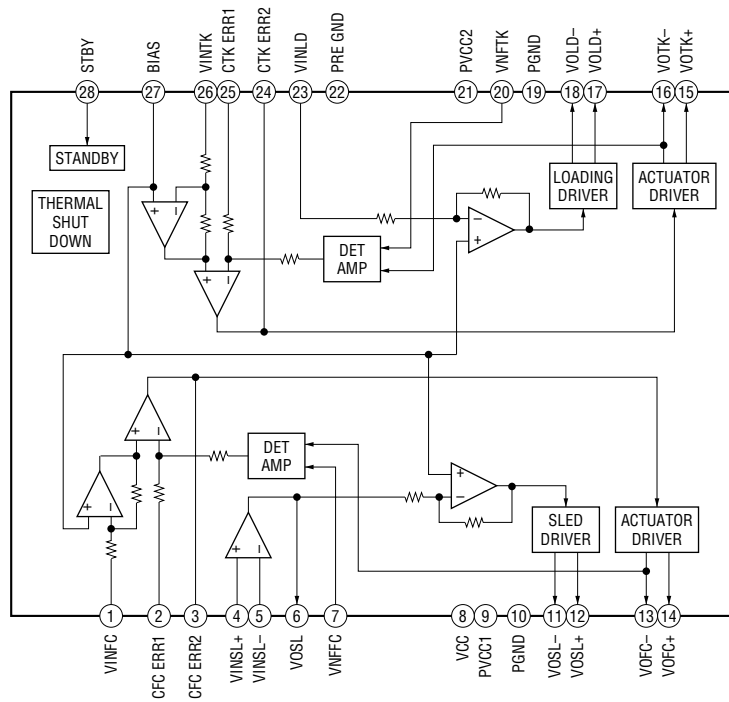


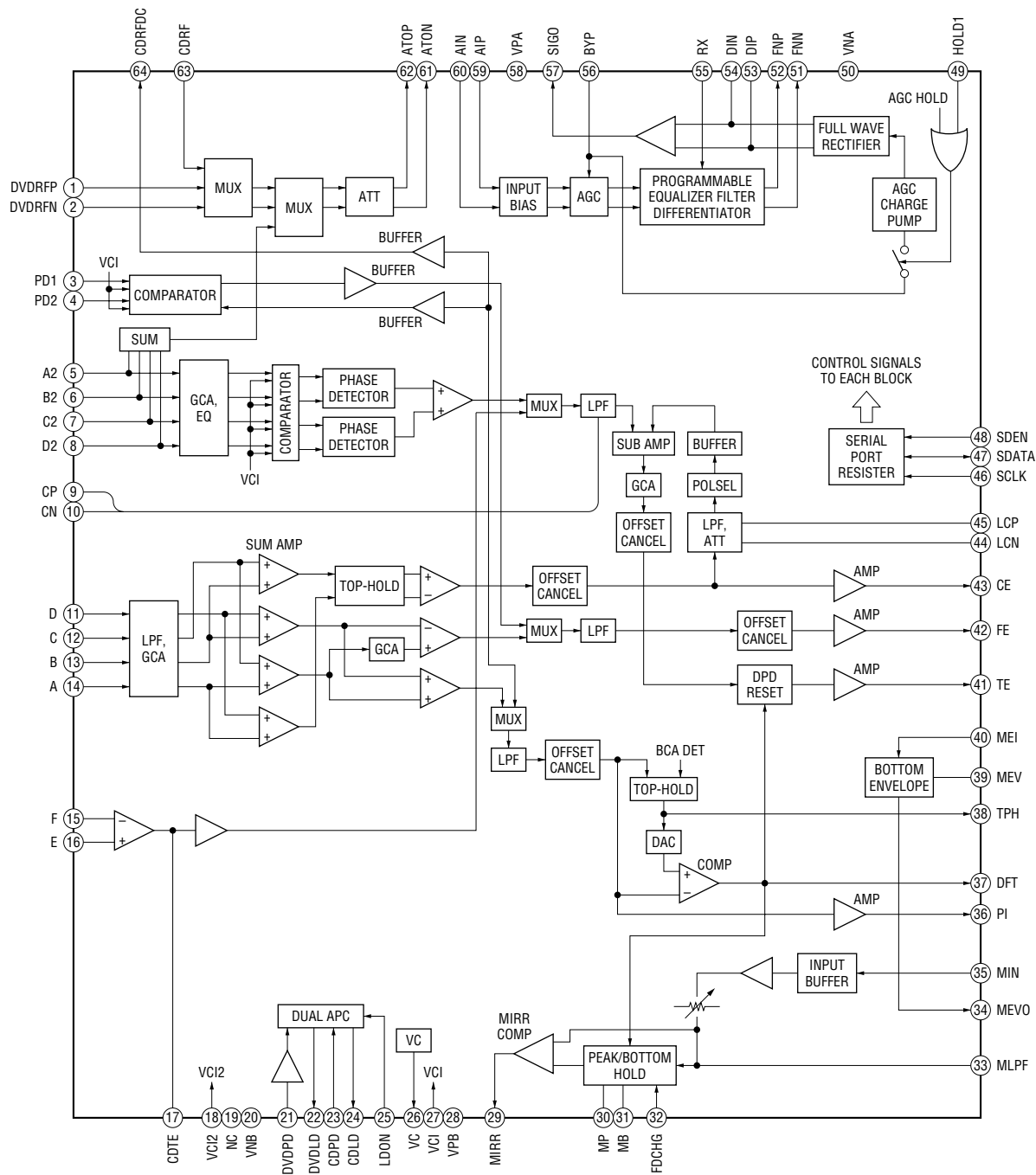
14 14



- IC Block Diagrams

- U5 BA5954FP-E2





• IC Pin Function Description

SERVO BOARD U1 M5705 (DVD/CD DIGITAL SIGNAL PROCESSOR)

Pin No.	Pin Name	I/O	Description
1	AVSS_DS	—	Ground terminal
2	XSRFIN	I	DVD/CD RF signal input terminal
3	XSIPIN	I	Inverting input terminal of data slicer
4	AVDD5_DS	—	Power supply terminal (+5V)
5	XSDSSLV	O	Slice level output terminal
6	XSRSLINT	I	Reference current setting terminal for analog data slicer
7	VDD	—	Power supply terminal (+3.3V)
8	XSAWRC	O	Enlarge signal output for VCO range
9	XSRFGC	O	RF gain control signal output for loading motor drive
10	XSEFGC	O	EF gain control signal output terminal Not used
11	XSFOCUS	O	Output voltage level control signal output for focus coil drive
12	XSTRACK	O	Output voltage level control signal output for tracking coil drive
13	XSSLEG	O	Output voltage level control signal output for sled motor drive
14	AVDD5_DA	—	Power supply terminal (+5V)
15	XSMOTOR	O	Output voltage level control signal output for spindle motor drive
16	AVSS_DA	—	Ground terminal
17	XSRFRPLP	I	High bandwidth low pass filter input for RFRP
18	XSTELP	I	High bandwidth low pass filter input for tracking error
19	XSREF2	I	Reference voltage input terminal (+2.1V)
20	XSRFRP	I	RF ripple/envelope signal input terminal
21	XSTEXI	I	Tracking zero crossing signal input terminal
22	AVSS_AD	—	Ground terminal
23	XSTEI	I	Tracking error signal input terminal
24	XSFEI	I	Focus error signal input terminal
25	XSCEI	I	Center error signal input terminal
26	AVDD5_AD	—	Power supply terminal (+5V)
27	XSSBAD	I	Sub-beam addition signal input terminal
28	GND	—	Ground terminal
29	XSDFACT	I	Detect deflection signal input terminal
30	XSCSJ	O	Chip select signal output for accessing control registers
31	XSCLK	O	Clock signal output for accessing control registers
32	XSDATA	I/O	Registers data input/output terminal
33	XSLDC	O	Standby on/off signal output to the coil/motor driver
34	XSFGIN	I	Motor hall sensor input terminal
35	XSSPDON	O	Spindle motor on/off control signal output terminal
36 to 39	XSFLAG3 to XSFLAG0	O	Monitoring terminal for servo control block Not used
40	XMP1_7	I	Detection signal input from the disc in detect sensor
41	XMP1_6	I	Detection signal input from the limit switch
42	GND	—	Ground terminal
43	XMP1_5	I/O	Not used
44	XMP1_4	I	Detection signal input from the disc out detect sensor
45	XMP1_3	I	Detection signal input from the close end switch
46	XMFSCSJ	O	Chip select signal output to the flash memory
47	XMP1_2	I/O	Not used
48	XGPIO2	O	Laser diode on/off control signal output to the RF amplifier



Pin No.	Pin Name	I/O	Description
49	XMP1_1	I/O	Not used
50	XHRSTJ	I	Reset signal for ATA bus input from the MPEG decoder
51	XGPIO1	O	DVD/CD switching signal output terminal
52	XGPIO0	I	Switch input from the gain switch
53	XCRSTJ	I	Chip reset signal input from the reset signal generator
54	XMPSENJ	O	Output enable signal output to the flash memory
55	VDD_3.3	—	Power supply terminal (+3.3V)
56	XMALE	I/O	This terminal for address latch signal Not used
57	XMP1_0	I	Switch input from the RF switch
58	VDD_3.3	—	Power supply terminal (+3.3V)
59	XOSC1	I	System clock input terminal (33.8688 MHz)
60	XOSC2	O	System clock output terminal (33.8688 MHz)
61	GND	—	Ground terminal
62 to 69	XMD0 to XMD7	I/O	Two-way data bus with the flash memory
70	XMCSJ	I/O	This terminal for chip select signal Not used
71	XMRDJ	I/O	This terminal for read strobe signal Not used
72	XMWRJ	O	Write strobe signal output to the flash memory
73	XMINT1J	I/O	This terminal for interrupt signal Not used
74	XMA11	O	Address signal output to the flash memory
75	XMA10	O	Address signal output to the flash memory
76	VDD_3.3	—	Power supply terminal (+3.3V)
77 to 86	XMA9 to XMA0	O	Address signal output to the flash memory
87	XMA12	O	Address signal output to the flash memory
88	GND	—	Ground terminal
89 to 91	XMA13 to XMA15	O	Address signal output to the flash memory
92	XHDASPJ	I/O	This terminal for drive active/slave present signal Not used
93	XHCS3J	I	Chip select signal input from the MPEG decoder
94	XHCS1J	I	Chip select signal input from the MPEG decoder
95	XHA2	I	Host address signal input from the MPEG decoder
96	XHA0	I	Host address signal input from the MPEG decoder
97	XHPDIAGJ	I/O	This terminal for diagnostics signal Not used
98	XHA1	I	Host address signal input from the MPEG decoder
99	XHCS16J	O	Chip select signal for 16 bit data transfer output from the MPEG decoder
100	XHINTJ	O	Interrupt request signal output to the MPEG decoder
101	XHDACKJ	I	DMA acknowledge signal input terminal Not used
102	XHIORDYJ	O	Ready signal output to the MPEG decoder
103	XHIORJ	I	Data read enable signal input from the MPEG decoder
104	XHIOWJ	I	Write strobe signal input from the MPEG decoder
105	XHDRQJ	O	MPEG acknowledge signal or DMA request signal output terminal Not used
106	XHD15	I/O	Two-way host data bus with the MPEG decoder
107	XHD0	I/O	Two-way host data bus with the MPEG decoder
108	XHD14	I/O	Two-way host data bus with the MPEG decoder
109	XHD1	I/O	Two-way host data bus with the MPEG decoder
110	GND	—	Ground terminal
111	XHD13	I/O	Two-way host data bus with the MPEG decoder
112	XHD2	I/O	Two-way host data bus with the MPEG decoder

Pin No.	Pin Name	I/O	Description
113	XHD12	I/O	Two-way host data bus with the MPEG decoder
114	XHD3	I/O	Two-way host data bus with the MPEG decoder
115	VDD_3.3	—	Power supply terminal (+3.3V)
116	XHD11	I/O	Two-way host data bus with the MPEG decoder
117	XHD4	I/O	Two-way host data bus with the MPEG decoder
118	XHD10	I/O	Two-way host data bus with the MPEG decoder
119	XHD5	I/O	Two-way host data bus with the MPEG decoder
120	XHD9	I/O	Two-way host data bus with the MPEG decoder
121	XHD6	I/O	Two-way host data bus with the MPEG decoder
122	XHD8	I/O	Two-way host data bus with the MPEG decoder
123	XHD7	I/O	Two-way host data bus with the MPEG decoder
124	XRD15	I/O	Two-way data bus with the SD-RAM
125	XRD0	I/O	Two-way data bus with the SD-RAM
126	XRD14	I/O	Two-way data bus with the SD-RAM
127	XRD1	I/O	Two-way data bus with the SD-RAM
128	XRD13	I/O	Two-way data bus with the SD-RAM
129	XRD2	I/O	Two-way data bus with the SD-RAM
130	GND	—	Ground terminal
131	XRD12	I/O	Two-way data bus with the SD-RAM
132	XRD3	I/O	Two-way data bus with the SD-RAM
133	XRD11	I/O	Two-way data bus with the SD-RAM
134	XRD4	I/O	Two-way data bus with the SD-RAM
135	XRD10	I/O	Two-way data bus with the SD-RAM
136	XRD5	I/O	Two-way data bus with the SD-RAM
137	XRD9	I/O	Two-way data bus with the SD-RAM
138	GND	—	Ground terminal
139	XRD6	I/O	Two-way data bus with the SD-RAM
140	XRD8	I/O	Two-way data bus with the SD-RAM
141	XRD7	I/O	Two-way data bus with the SD-RAM
142	XRWEJ	O	Write enable signal output to the SD-RAM
143	XRSDCLK	O	Serial data transfer clock signal output to the SD-RAM
144	XRRASJ	O	Row address strobe signal output to the SD-RAM
145	XRCASJ	O	Column address strobe signal output to the SD-RAM
146	VDD_3.3	—	Power supply terminal (+3.3V)
147	XROEJ	O	Output enable signal output to the SD-RAM
148	XRA9	O	Address signal output to the SD-RAM
149	XRA8	O	Address signal output to the SD-RAM
150	VDD_3.3	—	Power supply terminal (+3.3V)
151	XRA11	O	Address signal output to the SD-RAM
152	XRA10	O	Address signal output to the SD-RAM
153	XRA7	O	Address signal output to the SD-RAM
154	GND	—	Ground terminal
155 to 157	XRA6 to XRA4	O	Address signal output to the SD-RAM
158 to 161	XRA0 to XRA3	O	Address signal output to the SD-RAM
162	VDD_3.3	—	Power supply terminal (+3.3V)
163	XTPLCK	I/O	For PCLK test terminal Not used
164	XTSLRF	I/O	For SLRF test terminal Not used

Pin No.	Pin Name	I/O	Description
165	GND	—	Ground terminal
166	XSPDIREF	I	Phase detector reference current input terminal Not used
167	XSFDIREF	I	Frequency detector reference current input terminal Not used
168	AVDD5_PL	—	Power supply terminal (+3.3V)
169	XSPLLFTR2	I	Data PLL loop filter input terminal
170	AVSS_PL	—	Ground terminal
171	XSFDO	O	Output node of frequency detector charge pump circuit
172	XSFTROPI	I	Input node of loop filter OP circuit
173	XSVR_PLL	I	PLL reference voltage input terminal
174	XSPDOFTR1	I	Phase detector filter input terminal
175	XSVREFO	O	Reference voltage output terminal
176	XSAWRCVCO	I	Auto wide range control VCO input terminal

NOTE:

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

This exploded view diagram illustrates the assembly of a microwave oven. The components are labeled with numbers and callouts:

- 252**: Top microwave door panel.
- 264**: Microwave door frame.
- 273**: Door hinge pin.
- 262**: Microwave oven main body.
- 263**: Microwave oven control panel.
- 261**: Microwave oven control panel mounting bracket.
- 260**: Microwave oven control panel mounting bracket.
- 265**: Microwave oven control panel mounting bracket.
- #12**: Microwave oven control panel mounting screw.
- 266**: Microwave oven control panel mounting bracket.
- M1**: Microwave oven control panel mounting screw.
- 259**: Microwave oven control panel mounting bracket.
- #11**: Microwave oven control panel mounting screw.
- #10**: Microwave oven control panel mounting screw.
- 267**: Microwave oven control panel mounting bracket.
- 258**: Microwave oven control panel mounting bracket.
- #10**: Microwave oven control panel mounting screw.
- 268**: Microwave oven control panel mounting bracket.
- 255**: Microwave oven control panel mounting bracket.
- 256**: Microwave oven control panel mounting bracket.
- 257**: Microwave oven control panel mounting bracket.
- 269**: Microwave oven control panel mounting bracket.
- 270**: Microwave oven control panel mounting bracket.
- 271**: Microwave oven control panel mounting bracket.
- 252**: Microwave oven control panel mounting bracket.
- 254**: Microwave oven control panel mounting bracket.
- 253**: Microwave oven control panel mounting bracket.
- 252**: Microwave oven control panel mounting bracket.
- 251**: Microwave oven control panel mounting bracket.
- 272**: Microwave oven control panel mounting bracket.
- 252**: Microwave oven control panel mounting bracket.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	9-885-068-04	SP FRONT R		265	9-885-068-01	LOADING BELT-L	
252	9-885-063-32	+BTT 2X4 (S TITE)		266	9-885-067-94	CLAMPER ASSY	
253	9-885-068-09	HBD-28T-7145-B (BLUE)		267	9-885-067-96	SENSOR BOARD, COMPLETE	
254	9-885-067-98	PLATE CHAS BTOM ASSY		268	9-885-068-30	FFC 0.5-45-L50	
255	9-885-068-03	SP FRONT L		269	9-885-068-08	SP BALANCE REAR	
256	9-885-068-05	SP BALANCE		270	9-885-068-07	SP REAR R	
257	9-885-068-06	SP REAR L		271	9-885-068-11	HBD-28T-7147-GY (GRAY)	
258	9-885-067-99	SERVO BOARD, COMPLETE		272	9-885-068-10	HBD-28T-7146-GN (GREEN)	
△ 259	9-885-098-03	PLATE CHASS ASSY 3 (WITH OP)		273	9-885-068-12	M1.7X1.5 PRECISION TYPE 3N	
260	9-885-067-95	ROLLER BASE ASSY		M1	9-885-068-00	LOADING MOTOR ASSY	
261	9-885-068-26	ROLLER SPRING		#10	7-621-772-00	SCREW +B 2X3	
262	9-885-067-93	LOADER ASSY		#11	7-621-772-18	SCREW +B 2X4	
263	9-885-068-02	PSW 1.6X5X0.4 C BK		#12	7-627-551-18	SCREW, PRECISION +P 1.4X2	
264	9-885-067-92	TOP COVER ASSY					

5. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
 - -XX and -X mean standardized parts, so they may have some difference from the original one.
 - RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - SEMICONDUCTORS
In each case, u: μ , for example:
uA... : μ A... uPA... : μ PA...
uPB... : μ PB... uPC... : μ PC...
uPD... : μ PD...
 - CAPACITORS
uF: μ F
 - COILS
uH: μ H

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark			
	9-885-067-96	SENSOR BOARD, COMPLETE	*****			
For the parts on the SENSOR board, replace the entire mounted board.						

	9-885-067-99	SERVO BOARD, COMPLETE	*****			
< CAPACITOR >						
BC1	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
BC2	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
BC3	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
BC4	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
BC5	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
BC6	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
BC7	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
BC8	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
BC9	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
BC10	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
BC11	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
BC12	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
BC13	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
BC14	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
BC15	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
BC16	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
BC17	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C1	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C2	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C3	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C4	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C5	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C6	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C7	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C8	1-164-739-11	CERAMIC CHIP	560PF	5%	50V	
C9	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C10	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C11	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
C12	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C13	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C14	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C16	1-162-969-11	CERAMIC CHIP	6800PF	10%	25V	
C17	9-885-068-13	CERAMIC CHIP	0.47uF			
C18	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C19	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	

Ref. No.	Part No.	Description	Remark			
C20	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	
C22	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C23	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C24	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C25	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C26	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C27	1-162-916-11	CERAMIC CHIP	12PF	5%	50V	
C28	1-162-916-11	CERAMIC CHIP	12PF	5%	50V	
C29	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C30	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C31	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C32	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C33	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C34	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C35	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C36	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C37	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C38	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C39	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
C40	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C41	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C42	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C43	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C45	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C46	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C47	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C49	1-162-921-11	CERAMIC CHIP	33PF	5%	50V	
C50	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C51	1-162-921-11	CERAMIC CHIP	33PF	5%	50V	
C52	1-162-921-11	CERAMIC CHIP	33PF	5%	50V	
C53	1-162-963-11	CERAMIC CHIP	680PF	10%	50V	
C54	1-162-963-11	CERAMIC CHIP	680PF	10%	50V	
C55	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C56	1-162-963-11	CERAMIC CHIP	680PF	10%	50V	
C57	1-162-963-11	CERAMIC CHIP	680PF	10%	50V	
C58	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C59	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C60	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C62	1-164-217-11	CERAMIC CHIP	150PF	5%	50V	
C63	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C64	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
C65	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C66	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C67	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	R11	1-218-331-11	METAL CHIP	51K	5%	1/10W
C68	1-162-921-11	CERAMIC CHIP	33PF	5%	50V	R13	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
						R14	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
C69	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	R15	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
C70	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	R16	1-216-833-11	METAL CHIP	10K	5%	1/10W
C71	9-885-068-13	CERAMIC CHIP	0.47uF								
C72	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	R17	1-216-841-11	METAL CHIP	47K	5%	1/10W
C75	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	R18	1-216-803-11	METAL CHIP	33	5%	1/10W
						R19	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
C83	1-162-963-11	CERAMIC CHIP	680PF	10%	50V	R20	1-216-864-11	SHORT CHIP	0		
C84	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	R21	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
C85	1-165-908-11	CERAMIC CHIP	1uF	10%	10V						
C90	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	R22	1-216-864-11	SHORT CHIP	0		
C100	1-162-963-11	CERAMIC CHIP	680PF	10%	50V	R23	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R24	1-216-833-11	METAL CHIP	10K	5%	1/10W
C110	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	R25	1-216-833-11	METAL CHIP	10K	5%	1/10W
C111	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	R26	1-218-272-11	METAL CHIP	5.1K	5%	1/10W
		< CONNECTOR >				R27	1-216-833-11	METAL CHIP	10K	5%	1/10W
CN1	9-885-068-20	CONNECTOR, FFC (50P)				R28	1-216-841-11	METAL CHIP	47K	5%	1/10W
CN4	9-885-068-21	CONNECTOR, FFC (45P)				R29	1-216-797-11	METAL CHIP	10	5%	1/10W
CN5	9-885-068-22	CONNECTOR, FFC (6P)				R31	1-216-803-11	METAL CHIP	33	5%	1/10W
		< DIODE >				R33	1-216-811-11	METAL CHIP	150	5%	1/10W
D2	6-500-086-01	DIODE RLS4148TE-11				R34	1-216-811-11	METAL CHIP	150	5%	1/10W
D3	6-500-086-01	DIODE RLS4148TE-11				R35	1-216-833-11	METAL CHIP	10K	5%	1/10W
D100	6-500-086-01	DIODE RLS4148TE-11				R36	1-216-839-11	METAL CHIP	33K	5%	1/10W
						R37	1-218-291-11	METAL CHIP	16K	5%	1/10W
						R38	1-216-837-11	METAL CHIP	22K	5%	1/10W
		< JACK >				R39	1-216-864-11	SHORT CHIP	0		
* J1	1-580-055-21	PIN, CONNECTOR (SMD) 2P				R40	1-218-291-11	METAL CHIP	16K	5%	1/10W
		< COIL >				R41	1-216-803-11	METAL CHIP	33	5%	1/10W
L1	9-885-068-14	CHIP INDUCTOR	27uH			R42	1-216-834-11	METAL CHIP	12K	5%	1/10W
L2	9-885-068-14	CHIP INDUCTOR	27uH			R43	1-216-864-11	SHORT CHIP	0		
L3	9-885-068-14	CHIP INDUCTOR	27uH			R44	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
L4	9-885-068-14	CHIP INDUCTOR	27uH			R45	1-216-837-11	METAL CHIP	22K	5%	1/10W
L5	9-885-068-14	CHIP INDUCTOR	27uH			R46	1-216-841-11	METAL CHIP	47K	5%	1/10W
						R47	1-216-841-11	METAL CHIP	47K	5%	1/10W
L6	9-885-068-14	CHIP INDUCTOR	27uH			R48	1-217-671-11	METAL CHIP	1	5%	1/10W
L7	9-885-068-14	CHIP INDUCTOR	27uH			R49	1-217-671-11	METAL CHIP	1	5%	1/10W
		< TRANSISTOR >				R50	1-217-671-11	METAL CHIP	1	5%	1/10W
Q1	9-885-068-18	TRANSISTOR	SPX1117M3-3.3			R51	1-217-671-11	METAL CHIP	1	5%	1/10W
Q2	8-729-106-60	TRANSISTOR	2SB1115A-YQ			R52	1-216-797-11	METAL CHIP	10	5%	1/10W
Q3	8-729-106-60	TRANSISTOR	2SB1115A-YQ			R53	1-216-797-11	METAL CHIP	10	5%	1/10W
Q10	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R55	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q11	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R56	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
						R57	1-218-302-11	METAL CHIP	8.2K	1%	1/16W
Q12	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R58	1-216-803-11	METAL CHIP	33	5%	1/10W
						R59	1-216-803-11	METAL CHIP	33	5%	1/10W
		< RESISTOR >				R60	1-216-803-11	METAL CHIP	33	5%	1/10W
R1	1-216-833-11	METAL CHIP	10K	5%	1/10W	R61	1-216-864-11	SHORT CHIP	0		
R2	1-216-803-11	METAL CHIP	33	5%	1/10W	R62	1-216-864-11	SHORT CHIP	0		
R3	1-216-803-11	METAL CHIP	33	5%	1/10W	R63	1-216-864-11	SHORT CHIP	0		
R4	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	R64	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5	1-216-845-11	METAL CHIP	100K	5%	1/10W						
						R65	1-216-803-11	METAL CHIP	33	5%	1/10W
R6	1-216-842-11	METAL CHIP	56K	5%	1/10W	R66	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7	1-216-833-11	METAL CHIP	10K	5%	1/10W	R73	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R8	1-218-272-11	METAL CHIP	5.1K	5%	1/10W	R74	1-216-842-11	METAL CHIP	56K	5%	1/10W
R9	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R75	1-216-833-11	METAL CHIP	10K	5%	1/10W
R10	1-218-292-11	METAL CHIP	20K	5%	1/10W						
						R78	1-216-853-11	METAL CHIP	470K	5%	1/10W
						R80	1-218-302-11	METAL CHIP	8.2K	1%	1/16W
						R81	1-216-864-11	SHORT CHIP	0		

MV-900SDS

Ver. 1.3

SERVO

Ref. No.	Part No.	Description	Remark			
R82	1-216-864-11	SHORT CHIP	0			
R83	1-216-864-11	SHORT CHIP	0			
R84	1-216-864-11	SHORT CHIP	0			
R100	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R101	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R102	1-218-701-11	FILM CHIP	2.4K	0.5%	1/10W	
R103	1-218-701-11	FILM CHIP	2.4K	0.5%	1/10W	
R104	1-218-344-11	METAL CHIP	7.5K	5%	1/10W	
R105	1-218-344-11	METAL CHIP	7.5K	5%	1/10W	
R106	1-218-344-11	METAL CHIP	7.5K	5%	1/10W	
R107	1-218-344-11	METAL CHIP	7.5K	5%	1/10W	
R108	1-218-701-11	FILM CHIP	2.4K	0.5%	1/10W	
R109	1-218-701-11	FILM CHIP	2.4K	0.5%	1/10W	
R110	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R200	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R201	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R202	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R203	1-216-833-11	METAL CHIP	10K	5%	1/10W	
< COMPOSITION CIRCUIT BLOCK >						
RN1	1-236-908-11	NETWORK RESISTOR (CHIP)	10K		1/16W	
RN2	1-239-409-11	RES, CHIP NETWORK	47 (3216)			
RN3	1-234-524-21	RES, CHIP NETWORK	33 (3216)			
RN4	1-236-908-11	NETWORK RESISTOR (CHIP)	10K		1/16W	
RN5	1-236-908-11	NETWORK RESISTOR (CHIP)	10K		1/16W	
RN6	1-236-908-11	NETWORK RESISTOR (CHIP)	10K		1/16W	
RN7	1-236-908-11	NETWORK RESISTOR (CHIP)	10K		1/16W	
RN8	1-233-576-11	RES, CHIP NETWORK	100 (3216)			
RN9	1-233-576-11	RES, CHIP NETWORK	100 (3216)			
RN10	1-233-576-11	RES, CHIP NETWORK	100 (3216)			
RN11	1-233-576-11	RES, CHIP NETWORK	100 (3216)			
RN12	1-234-524-21	RES, CHIP NETWORK	33 (3216)			
< CAPACITOR >						
TC1	1-110-569-11	TANTALUM CHIP	47uF	20%	6.3V	
TC2	1-110-569-11	TANTALUM CHIP	47uF	20%	6.3V	
TC3	1-110-569-11	TANTALUM CHIP	47uF	20%	6.3V	
TC4	1-110-569-11	TANTALUM CHIP	47uF	20%	6.3V	
TC5	1-110-569-11	TANTALUM CHIP	47uF	20%	6.3V	
TC6	1-110-569-11	TANTALUM CHIP	47uF	20%	6.3V	
TC7	1-110-569-11	TANTALUM CHIP	47uF	20%	6.3V	
TC8	1-110-569-11	TANTALUM CHIP	47uF	20%	6.3V	
TC9	1-104-852-11	TANTALUM CHIP	22uF	20%	10V	
TC10	1-104-852-11	TANTALUM CHIP	22uF	20%	10V	
TC11	1-110-569-11	TANTALUM CHIP	47uF	20%	6.3V	
TC12	1-110-569-11	TANTALUM CHIP	47uF	20%	6.3V	
TC20	1-110-569-11	TANTALUM CHIP	47uF	20%	6.3V	
TC21	1-113-682-11	TANTALUM CHIP	33uF	20%	10V	
< IC >						
U1	9-885-037-80	IC M5705				
U2	9-885-068-17	IC SST39SF010A-70-41-WH				
U3	9-885-068-15	IC BD4738G-TR				
U4	6-705-992-01	IC HY57V161610ETP-7				
U5	6-703-242-01	IC BA5954FP-E2				
U6	9-885-037-82	IC SP-3721A				
U7	9-885-068-16	IC TL3472CDR				

Ref. No.	Part No.	Description	Remark
< VIBRATOR >			
Y1	9-885-068-19	VIBRATOR, CERAMIC (33.8688MHz)	

MISCELLANEOUS			

△ 259	9-885-098-03	PLATE CHASS ASSY 3 (WITH OP)	
268	9-885-068-30	FFC 0.5-45-L50	
M1	9-885-068-00	LOADING MOTOR ASSY	

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

MEMO

REVISION HISTORY

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Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

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